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Bibliography of Infrared Spectroscopy through 1960

Part 1

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Office of Standard Reference Data — Office of Information Activities — Office of Technical Publications — Library — Office of International Relations.

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[1] Headquarters and Laboratories at Gaithersburg, Maryland, unless otherwise noted; mailing address Washington, D.C. 20234.
[2] Part of the Center for Radiation Research.
[3] Located at Boulder, Colorado 80302.
[4] Part of the Center for Building Technology.

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Bibliography of Infrared Spectroscopy through 1960

Part 1

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Foreword

The National Standard Reference Data System was established in 1963 for the purpose of promoting the critical evaluation and dissemination of numerical data of the physical sciences. The program is coordinated by the Office of Standard Reference Data of the National Bureau of Standards but involves the efforts of many groups in universities, government laboratories, and private industry. The primary aim of the program is to provide compilations of critically evaluated physical and chemical property data. These tables are published in the *Journal of Physical and Chemical Reference Data,* in the NSRDS-NBS series of the National Bureau of Standards, and through other appropriate channels.

The task of critical evaluation is carried out in various data centers, each with a well-defined technical scope. A necessary preliminary step to the critical evaluation process is the retrieval from the world scientific literature of all papers falling within the scope of the center. Each center, therefore, builds up a comprehensive well-indexed bibliographical file which forms the base for the evaluation task. Bibliographies derived from these files are published when they appear to be of value to research workers and others interested in the particular technical area.

Further information on NSRDS and the publications which form the primary output of the program may be obtained by writing to the Office of Standard Reference Data, National Bureau of Standards, Washington, DC 20234.

David R. Lide, Jr., Chief
Office of Standard Reference Data

PREFACE

The National Research Council and the National Bureau of Standards initiated the project on Infrared Bibliography around 1951, but could not complete it due to various reasons. The group at the Indian Institute of Technology Kanpur, India, took up this task in December 1969 under the Special International Programs of the National Bureau of Standards (Project G-78). The NRC-NBS group had gathered data from selected journals on keysort cards with an average cut-off date of 1956. The IIT Kanpur group, however, decided to make the bibliography as complete as possible up to the end of 1960 although the volume of literature increases very greatly towards the end of 1950's.

This bibliography, arranged according to the empirical formulae of compounds, covers both organic and inorganic substances. In addition to listing the references on the infrared spectra of compounds, the bibliography gives information on the nature of study in each reference, the spectral region covered and the state of the sample.

The preparation of this bibliography has been an enormous task and has involved the painstaking efforts of several workers in addition to the authors. I would like to take this opportunity to thank Mr. E. Carroll Creitz who was the secretary of the NRC Committee on Spectral Absorption Data and directed the early collection of data at the NBS. I would like to thank Mr. Zafar Jamil Dr. H. S. Randhawa, Dr. S. S. Misra, Mr. Jawahar Goel, Miss Barbara J. Miley, Dr. Francis Smith and Mr. James Stewart, for their assistance in collecting the

data. My thanks are also due to Messrs. Vijay Kumar, R. D. Tripathi and Nihal Ahmad for typing the manuscript in final form and the Education Development Centre of IIT Kanpur for support in the preparation of the manuscript.

Kanpur 208016, India C. N. R. RAO

January 24, 1974

CONTENTS

Preface iv

Introduction vi

I. ORGANIC COMPOUNDS 1

II. a. INORGANIC COMPOUNDS OF NONMETALS 1861

(Containing elements C, H, D, T, halogens, N, O, P, S, As, B, Se, Si and noble gases)

b. INORGANIC COMPOUNDS OF METALS 1985

(Containing elements other than those in IIa)

III. POLYMERIC COMPOUNDS 2295

IV. MINERALS AND ORES 2326

Bibliography of Infrared Spectroscopy Through 1960

C. N. R. Rao, S. K. Dikshit, S. A. Kudchadker, D. S. Gupta, V. A. Narayan, and J. J. Comeford

This bibliography is based on a systematic search of the literature on infrared spectroscopy up to the end of 1960. It covers, directly or through abstract journals, 121 periodicals. As a general rule, any paper of interest in the field of infrared spectroscopy is included. Substance coverage is provided in four sections: organic compounds, inorganic compounds, polymeric compounds, and minerals and ores. Information provided includes: empirical formula, compound name, range of wavelengths reported, state of material, type of data presented in paper, and literature reference.

Key words: Bibliography; data; infrared; inorganic, minerals; organic; ores; polymers; spectroscopy.

INTRODUCTION

This infrared bibliography is based on a systematic search of the literature on infrared spectroscopy up to the end of 1960. The literature search has been made by going through journals as well as through Chemical Abstracts. The extent of coverage of various journals is shown in lists A, B and C at the end of the Introduction.

As a general rule, any paper of interest in the field of infrared spectroscopy is included. Examples of fringe areas include microwave spectra where rotational constants are given, papers on preparation of chemical compounds where infrared spectra are used for identification, papers on Beer's law, references to mathematical treatments such as group theory and statistical mechanics and so on. Papers on Raman spectroscopy have, however, not been included.

The bibliography has been divided into four sections: I, Organic Compounds; II, Inorganic Compounds (a, of non-metals; b, of metals); III, Polymeric Compounds; and IV, Minerals and Ores. The coverage in each section is as follows.

<u>Section I</u> : This section includes organic compounds containing C, H, D, T, halogens, N, O, P, S, As, B, Se and Si. Molecular complexes like $C_6H_6 \cdot I_2$, $C_4H_6 \cdot C_4H_2O_3$ and $CH_3NH_2 \cdot BF_3$ have also been included in this section; the inorganic components in the molecular complexes are also made up of the elements mentioned earlier.

Section II(a) : In this section, inorganic compounds containing C, H, D, T, halogens, N, O, P, S, As, B, Se, Si and noble gases have been included. Molecular complexes with inorganic components like $BF_3 \cdot NH_3$ and $H_2SO_4 \cdot HNO_3$ are also included in this section; the complexes also contain the elements mentioned earlier.

Section II(b) : In this section, simple and complex compounds of elements not covered in II(a) are included, the elements being arranged alphabetically. Molecular complexes like $SnCl_4 \cdot C_4H_8O_2$ are included in the appropriate sub-section dealing with the metallic element (Sn in this case). Complexes like $NaUO_2(C_2H_3O_2)_3$, $K_4Fe(CN)_6$, $K_3Co(CN)_5NO$, and $K\ PtCl_3(NH_3)$ are included under uranium, iron, cobalt and platinum, respectively, and not under sodium or potassium. A complex like $\left[Co(NH_3)_6\right]^{+3}\left[Cr(CN)_6\right]^{3-}$ (written as $CoC_6H_{18}N_{12}Cr$) would come under the element which comes first in alphabetical order (Co in this case). After the first IIb element, the elements of sections I and IIa are written followed by the other IIb element.

Section III : Molecules like polystyrene $(C_6H_8)_n$, polyethylene $(C_2H_4)_n$, paraldehyde, $(CH_2O)_n$, as well as other polymeric molecules where n is not exactly known are included in this section.

Section IV : Most of the minerals and ores are included in this section.

The bibliography is arranged in the order of empirical formulae of compounds in each of the above categories. The information on each compound is given under the following headings: Empirical formula; Name; Range; State; Remark and Reference.

Empirical Formula : In sections I and II(a), the following order of elements is followed in writing the empirical formulae; C, H, D, T, Br, Cl, F, I, N, O, P, S, As, B, Se and Si (followed by noble gases in section IIa). The following examples would serve to illustrate the order of arrangement.

$C_{13}H_2Cl_{10}N_2O$, $C_{13}H_3F_5N_2O_6$, $C_{13}H_4Cl_2F_6N_2O$, $C_{13}H_4Cl_8N_2O$, $C_{13}H_4F_{20}O_4$, $C_{13}H_5Cl_7N_2O$ .....; CHN, CO_2, H_2O, D_2O...

Compounds with the same empirical formulae are arranged according to the alphabetic order of the names. In section I, compounds are arranged in the order of increasing number of C atoms. In section II(a), C-compounds are followed by hydrogen compounds which are followed by deuterium compounds and so on. In section II(b), compounds are listed according to the alphabetic order of the element symbols (e.g., Ca comes before Cu). The following examples illustrate the manner in which empirical formulae are given in this section: (i) oxalate complex of Cobalt(III) CoC_6O_{12}: (ii) acetylacetone complex of cobalt(III): $CoC_{15}H_{21}O_6$. In section III, the arrangement is similar to sections I and II in the monomer part of the system. The arrangement in section IV can be made clear by taking the example of spodumene $Li_2O{\cdot}Al_2O_3{\cdot}4SiO_2$. The empirical formula of spodumene is shown as $Al_2O_{12}Si_4Li_2$. The first element in the formula is the one that comes first alphabetically among the metallic elements (of section IIb); this is followed by other elements belonging to sections I, IIa and IIb.

Name of the Compound : In naming compounds, the IUPAC rules have been generally followed, although for some compounds trivial names have also been used when these are well known. The names of transition metal complexes have been simplified in the following manner:

$Pd_2C_{36}H_{30}Cl_4P_2$	Chlorotriphenylphosphinepalladium(II)-μ-dichlorochlorotriphenylphosphinepalladium(II)	Palladium(II)-chloride, triphenylphosphine complex

Ligands are written in the alphabetical order of their names.

Range : This gives the range of the wavelength over which the measurements are carried out. Whenever the range is not mentioned in the paper or abstract, we have omitted this information. When units are not mentioned, they are in cm^{-1}.

State : This defines the physical state of the compound in which the measurements are carried out. The code used is as follows: S = solid, mull, crystal, pellet or film; L = liquid; G = gas or vapor; Sol = solution.

Remark : This column indicates what the paper is about in a couple of words. The abbreviations used in this column are as follows:

Absorp, Abs	-	Absorption
Act	-	Activation
Amp	-	Amplitude
Anal	-	Analysis
Assign	-	Assignments
Assoc	-	Association
Calc	-	Calculation
Char	-	Characteristic
Compar	-	Comparison
Compd	-	Compound
Config	-	Configuration
Const	-	Constants
Corr	-	Correlation
Decomp	-	Decomposition
Depol	-	Depolarization

Dispers	-	Dispersion
Disso	-	Dissociation
Dist	-	Distance
Distinct	-	Distinction
Elect	-	Electron
Excit	-	Excitation
Ext coeff	-	Extinction coefficient
Fact	-	Factor
FC	-	Force constants
Freq	-	Frequencies
Gr	-	Group
H bond	-	Hydrogen bond
I	-	Intensity
Ident	-	Identification
Int	-	Internal
Intermol	-	Intermolecular
IR	-	Infrared
Iso	-	Isomerism
Mag	-	Magnetic
Micro	-	Microwave
Mol	-	Molecular
Mom inert	-	Moment of Inertia
NCA	-	Normal coordinate analysis
OD	-	Optical Density
Pert	-	Perturbation

Pot func	-	Potential function
Prep	-	Preparation
Prop	-	Properties
Press	-	Pressure
Qual	-	Qualitative
Quant	-	Quantitative
Quant mech	-	Quantum mechanics
Ref	-	Reference
Refl	-	Reflectance
Rot vib	-	Rotation vibration
Sens	-	Sensitive
Sp	-	Specific
Spec	-	Spectrum
Struc, Struct	-	Structure
Substi	-	Substitution
Taut	-	Tautomerism
Temp	-	Temperature
Theo	-	Theoretical
Thermo	-	Thermodynamics
Trans	-	Transmission
Vib	-	Vibrations

Reference : This column gives the literature reference. The reference is complete except that only the name of the first author is given. The reference is arranged in the order: Author, Journal, Volume, Year and Page. The codes used for the journals are given in the accompanying lists A, B and C. A typical reference is as follows: Herzberg, JCP 17 (1949) 1099. For any given compound,

references are generally arranged in chronological order. In cases where there are more than one reference in the same year, the references are arranged according to the alphabetical order of the authors.

LIST OF JOURNALS COVERED

List 'A'

(Journals covered till the end of 1960)

Code	Journal
AC	Anal. Chem.
ACS	Acta Chem. Scandinavica
AJC	Australian J. Chem.
AJP	Australian J. Phys.
AJSR	Australian J. Sc. Res.
AMS	Am. Sci.
APS	Appl. Spectroscopy
BCSJ	Bull. Chem.Soc. Japan
CJC	Can. J. Chem.
CJP	Can. J. Physics
CJR	Can. J. Research (A series)
CR	Chem. Rev.
CS	Current Science
IJP	Ind. J. Phys.
JACS	J. Am. Chem. Soc.

Code	Journal
JAP	J. Appl. Phys.
JCP	J. Chem. Phys.
JCS	J. Chem. Soc.
JINC	J. Inorg. & Nucl. Chem.
JMP	J. Mol. Phys.
JMS	J. Mol. Spect.
JOC	J. Org. Chem.
JOSA	J. Opt. Soc. Am.
JPC	J. Phys. Chem.
JPS	J. Polymer Sci.
JRNB	J. Res. NBS
JSI	J. Sci. Instr.
MC	Makcromol Chem.
MP	Mol. Phys.
N	Nature
OS	Opt. Spectroscopiya
PIAS	Proc. Ind. Acad. Sci.
POL	Polymer
PR	Phys. Rev.
PRS	Proc. Roy. Soc. (London)
RMP	Rev. Mod. Phys.
RSI	Rev. Sci. Instr.
SA	Spect. Acta
TE	Tetrahedron
TFS	Trans. Faraday Soc.

List 'B'

(Journals covered through a search in Chemical Abstracts for the years 1958-1961)

A	Ann
AAN	Atti Accad Nazl Lincei, Rend. Classe, Sci. Fis; mat. e. nat.
ABB	Arch. Biochem. Biophys.
ACR	Acta Cryst
AF	Arikiv Fysik
AM	Am. Minerologist
ANA	Analyst
ANC	Angew. Chem.
ANCR	Ann. Chim. (Rome)
ARK	Arkiv. Kemi
ARS	Anales real soc espan fis y quim (Madrid) Ser.
BAPS	Bull. Am. Phys. Soc.
BASU	Bull. Acad. Sci. U.S.S.R., Phys. Ser.
BSCF	Bull. Soc. Chim. France
CCA	Creat Chem. Acta
CCCC	Collection Czechoslov. Chem. Sommuns.
CIL	Chem. Ind (London)
CPBT	Chem. Pharm. Bull. (Tokyo)
CPR	Compt. Rend.
DA	Dissertation Abstr.
DANS	Doklady Akad Nauk. SSSR

FTT	Fiz Tverdogo Tela
GCI	Gazz Chim. ital.
HCA	Helv. Chim. Acta
IANS	Izvest. Akad. Nauk. SSSR Ser. Fiz.
JAFC	J. Agr. Food Chem.
JAOC	J. Am. Oil Chemists Soc.
JAPCL	J. Appl. Chem. (London)
JAPS	J. Appl. Polymer Sci.
JBC	J. Biological Chem.
JCE	Journal of Chemical Education
JCSJ	J. Chem. Soc. Japan
JIIS	J. Indian Inst. Sci.
JPR	J. Phys. radium
JPRC	J. Pract. Chem.
JPSJ	J. Phys. Soc. Japan
JSIR	J. Sci. Ind. Res.
KKZ	Kogyo Kagaku Zasshi
NC	Nuovo Cimento
NKZ	Nippon Kagaku Zasshi
NWS	Naturwissenschaften
P	Physica
PCS	Phys. and Chem. of Solids
PPSL	Proc. Phys. Soc. (London)
PRCS	Proc. Chem. Soc.
QRL	Quarterly Revs. (London)
RTC	Rec. Trav. Chim.

SK	Soumen Kemistilehti
TEL	Tetrahedron Letters
UFZ	Ukrain Fiz. Zhur
ZAC	Z. anal. Chem.
ZAUA	Z. anorg. U. allgem. Chem.
ZE	Z. Electrochem.
ZN	Z. Naturforsch
ZOK	Zhur. Obshchei. Khim.
ZP	Z. Physik.

List 'C'

(Journals covered by the NBS Group in their data collection up to (approx) 1956, but not included in Lists A and B)

AMAF	Akriv Mat. Astron. Fysik
ASS	Ann. Soc. Sci. Bruxells
BBA	Biochim et. Biophy. Acta
BBS	Bull B S
CIC	Chem. in Canada
DFS	Disc. Far. Soc.
IE	Ind. Eng. Chem.
IEC	Ind. Eng. Chem. (Anal. Ed.)
JA	Jap. Analyst
JP	J. Physique
JPCC	J. Phys. & Coll. Chem.
JPJ	J. Pharm. Japan

PNAS	Proc. NAS
RPCJ	Rev. Phys. Chem. Jap.
ZPC	Z. Physik. Chem. Frankfurt

I. Organic Compounds

(Containing elements C, H, D, T, halogens, N, O, P, S, As, B, Se and Si)

Formula	Name	Range	State	Remarks	Reference			
C_1 COMPOUNDS								
CH	CH radical	-	-	Freq	Mecke	TFS	25 (1929)	936
		-	-	π-type doubling theory	Mulliken	PR	38 (1931)	85
		-	-	C Valencies	Walsh	DFS	2 (1947)	18
		-	-	FC	Walsh	TFS	43 (1947)	60
		-	-	FC, Bond dist	Wu	PR	71 (1947)	118
		-	-	FC, Bond dist	Platt	JCP	18 (1950)	932
		-	-	FC, Bond dist	Sheline	JCP	18 (1950)	927
		-	G	Propane oxygen flame	Penner	JCP	20 (1952)	522
		-	-	FC	Mitra	JCP	22 (1954)	564
		-	-	Pot funct	Lippincott	JCP	23 (1955)	1131
CHDBrCl	Bromochloromethane-d_1	-	-	FC	Meister	PR	100 (1955)	1267
$CHDBr_2$	Dibromomethane-d_1	-	-	FC, Thermo	Dowling	JCP	22 (1954)	1042
$CHDCl_2^{35}$	Dichloromethane-d_1	-	-	Microwave	Myers	JCP	20 (1952)	1420
$CHDCl^{35}Cl^{37}$	Dichloromethane-d_1	-	-	Microwave	Myers	JCP	20 (1952)	1420
$CHDF_2$	Difluoromethane-d_1	-	-	FC	Meister	PR	100 (1955)	1267
$CHDN_2$	Diazomethane-d_1	19000-90000 Mc/sec.	G	Microwave, Mol consts	Cox	N	181 (1958)	1000
CHDO	Formaldehyde-d_1	-	-	Quant mechs	Wilson	JCP	2 (1934)	432
		2-15μ	G	Assign, Rot consts	Davidson	JCP	22 (1954)	289
		-	-	Bond energy, Ion. Pot.	Reed	TFS	52 (1956)	1195
CHDO	Formaldehyde-O-d_1	14488-16038 Mc/sec.	G	Mol consts	Thaddeus	JCP	31 (1959)	1677
$CHDO_2$	Formic acid-d_1	-	-	H bond	Bonner	JCP	6 (1938)	531
		-	-	Rot struct	Smith	PR	58 (1940)	208
		-	G	Spec, Assign	Williams	JCP	15 (1947)	232
		500-2000	G	Spec, Assign, Entropy	Millikan	JCP	27 (1957)	1305
		625-3800	S	Spec, Assign, Band shift	Millikan	JACS	80 (1958)	3515
		400-800	G,S	Spec, NCA	Miyazawa	JCP	30 (1959)	1076
$CHDO_2$	Formic acid-O-d_1	-	-	H bond	Bonner	JCP	6 (1938)	531
		1-15μ	G	H bond, Spec	Hofstadter	JCP	6 (1938)	540
		-	-	H bond	Herman	JCP	8 (1940)	252

		1-15 μ	-	Spec	Herman	JCP	8 (1940)	447
		-	-	Rot struct	Smith	PR	58 (1940)	208
		4000-800	G	Spec, Assign	Williams	JCP	15 (1947)	232
		-	-	Microwave, Struct	Trambarulo	JCP	22 (1954)	1622
		-	G	ν_{OH}, ν_{OD}	Bratoz	SA	8 (1956)	249
		500-2000	G	Spec, Assign, Entrop	Millikan	JCP	27 (1957)	1305
		625-3800	S	Spec, Assign, Band shift	Millikan	JACS	80 (1958)	3515
		400-800	G,S	Spec, NCA	Miyazawa	JCP	30 (1959)	1076
		120000-160000 Mc/sec.	-	Mol const	Mirri	NC	18 (1960)	849
CHD_2Br	Bromomethane-d_1	-	-	FC	DeHemptinne	TFS	42 (1946)	5
		-	-	Sum rule	Bernstein	JCP	21 (1953)	2188
		-	-	FC, Thermo	Dowling	JCP	23 (1955)	700
CHD_2Cl	Chloromethane-d_2	-	-	FC	DeHemptinne	TFS	42 (1946)	5
		-	G	Microwave	Matlack	JCP	18 (1950)	332
CHD_2I	Iodomethane-d_2	-	-	FC	DeHemptinne	TFS	42 (1946)	5
		-	-	Sum rule	Bernstein	JCP	21 (1953)	2188
CHD_2NO	Formamide-d_2	-	-	Spec	Kurland	JCP	27 (1957)	585
		300-3600	L	NCA, Spec, Assign	Suzuki	BCSJ	33 (1960)	1359
CHD_3	Methane-d_3	-	-	Freq, Assign, Vib rot interact	Johnston	PR	48 (1935)	868
		-	-	Quant mech.	Wilson	JCP	3 (1935)	276
		-	-	Freq, Assign	Macwood	JCP	4 (1936)	402
		900-3200	-	Freq, Assign, Analysis	Benedict	JCP	5 (1937)	1
		-	-	Vib, Product rule	Redlich	JCP	7 (1939)	856
		-	-	Mol anal	Glockler	JCP	9 (1941)	224
		-	-	Isotope effect, Ratio rule	Edgell	JCP	13 (1945)	539
		-	-	Mol anal	Halverson	RMP	19 (1947)	87
		-	-	Force field, Freq	Simanouti	JCP	17 (1949)	245
		-	-	Quant mech, Freq	Simanouti	JCP	17 (1949)	734
		-	-	Quant mech, Mol anal	Linnett	TFS	45 (1949)	39
		-	-	Sum rule	Bernstein	JCP	21 (1953)	2188
		-	G	Spec, Mol anal	Bovey	JCP	21 (1953)	830
		-	G	K fine struct in 2	Wiggins	JCP	21 (1953)	1940
		-	G	High resolution of band	Wiggins	JOSA	43 (1953)	330
		3-15 μ	G	Spec, Assign, Mol anal	Rea	TFS	52 (1956)	1304
		800-3400	G	Spec, Freq	Wilmshurst	CJC	35 (1957)	226
		1100-3000	-	Freq, I	Hiller	JMS	5 (1960)	24
CHD_3O	Methanol-d_3	2.5-18 μ	G	Spec, Assign	Noether	JCP	10 (1942)	693

		-	-	Spect, Ratio rule	Noether	JCP	11	(1943)	97
		-	-	FC	DeHemptinne	TFS	42	(1946)	5
		3-15μ	G,L	Freq	Courtoy	ASS	61	(1947)	139
		-	-	Mol anal	Halverson	RMP	19	(1947)	87
		-	G	Freq, Assign, Thermo	Ivash	JCP	23	(1955)	1814
		1000-1500	G,L	NCA, Assign	Tanaka	SA	9	(1957)	265
		6000-8000	Sol	Splitting of absorp bands	Bell	JCP	31	(1959)	300
$C^{12}HD_3O^{16}$	Methanol (isotopic)-d_3	-	G	Microwave, Mol consts	Swalen	JCP	23	(1955)	1739
		-	-	Microwave	Venkateswarlu	JCP	23	(1955)	1195
		-	-	Microwave	Venkateswarlu	JCP	23	(1955)	1200
CHD_3S	Methyl mercaptan-d_3	-	G	Microwave, Mol consts	Solimene	JCP	23	(1955)	124
CHBrClF	Bromochlorofluoromethane	-	-	Freq, assign	Glockler	JCP	8	(1940)	699
		-	-	Thermo	Glockler	JCP	9	(1941)	527
		2-38μ	G,L	Assign, Spect	Plyler	JRNB	46	(1951)	382
		-	-	Freq	Wilmshurst	CJC	35	(1957)	937
$CHBrCl_2$	Bromodichloromethane	-	-	Freq, Assign	Glockler	JCP	8	(1940)	699
		-	-	Thermo	Glockler	JCP	9	(1941)	527
		-	-	Freq, Assign	Wu	JCP	10	(1942)	116
		22-39μ	L	Freq	Plyler	JCP	17	(1949)	218
		2-38μ	L	Spec, Assign	Plyler	JRNB	47	(1951)	202
		700-4000	L	IR	Polo	PR	81	(1951)	300
		-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
		40-50μ	L	Spect	Plyler	JOSA	43	(1953)	212
		400-4000	L,G	Spect, Assign, Thermo, FC	Polo	JCP	23	(1955)	833
		-	-	Freq	Wilmshurst	CJC	35	(1957)	937
$CHBrF_2$	Bromodifluoromethane	-	-	Freq, Assign	Glockler	JCP	8	(1940)	699
		2-38μ	G,L	Spec, Vib anal, Assign	Plyler	JRNB	48	(1952)	92
		-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
		2-15μ	G	Spect, Thermo, FC	Palm	JCP	23	(1955)	726
		-	-	Freq	Wilmshurst	CJC	35	(1957)	937
$CHBrN_4$	5-Bromotetrazole	2-15μ	S	Spec, Freq	Leeber	AC	23	(1951)	1594
$CHBr_2Cl$	Chlorodibromomethane	-	-	Freq, Assign	Glockler	JCP	8	(1940)	699
		-	-	Thermo	Glockler	JCP	9	(1941)	527
		-	-	Freq, Assign	Wu	JCP	10	(1942)	116
		2-38μ	G,Sol,L	Spec, Mol anal	Plyler	JRNB	47	(1951)	202
		400-4300	L,G	IR, Assign, Thermo	Pontarelli	JCP	20	(1952)	1949
		190-280	L	Spec	Acquista	JOSA	43	(1953)	977
		-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
		-	-	FC	Meister	JCP	21	(1953)	158

		-	-	Freq	Wilmshurst	CJC	35 (1957)	937
$CHBr_2F$	Dibromofluoromethane	-	-	Freq, Assign	Glockler	JCP	8 (1940)	699
		-	-	Thermo	Glockler	JCP	9 (1941)	527
		-	-	Sum rule	Bernstein	JCP	21 (1953)	2188
		-	-	Thermo, FC	Murata	JCP	23 (1955)	702
		-	-	Freq	Wilmshurst	CJC	35 (1957)	937
$CHBr_2NO_2$	Dibromonitromethane	-	L	React prod	Schulz	JACS	73 (1951)	2962
$CHBr_3$	Bromoform	0-2.5μ	L	Spec	Ellis	PR	23 (1924)	48
		.589-3μ	L	Spec, Assign	Ellis	PR	28 (1926)	25
		-	L	I	Shearin	PR	35 (1930)	973
		-	-	Thermo	Stevenson	JCP	6 (1938)	25
		1-12μ	L	Dispersion of refr. index	Pittmann	JOSA	29 (1939)	358
		-	-	Spect	Gordy	JCP	7 (1939)	163
		-	-	Vib, Product rule	Redlich	JCP	7 (1939)	856
		-	-	Freq, Assign	Glockler	JCP	8 (1940)	699
		-	-	Freq, Thermo	Pitzer	JCP	8 (1940)	711
		-	G	Thermo chem equil rev	Pitzer	CR	27 (1940)	39
		-	-	Vibra. anal.	Glockler	JCP	9 (1941)	527
		-	-	Thermo	Glockler	JCP	99 (1941)	224
		2.5-15μ	-	Spec	Wright	IEC	13 (1941)	1
		-	-	Freq, Assign	Wu	JCP	10 (1942)	116
		2-15μ	L,G	Freq	Jenkins	PR	68 (1945)	99
		-	-	FC	Linnett	TFS	41 (1945)	223
		-	-	Mol anal	Halverson	RMP	19 (1947)	87
		-	L	Band struct.	Chulanouskii	IANS	12 (1948)	628
		-	-	Quant Mech	Decius	JCP	16 (1948)	214
		24-40μ	-	Freq	Plyler	JCP	16 (1948)	1008
		700-5000	L	IR, Assign	Meister	JCP	18 (1950)	346
		2-15μ	G	Spec, Assign	Plyler	JRNB	47 (1951)	202
		2-38μ	L	Spec, Assign	Plyler	JRNB	47 (1951)	202
		-	-	Press broadening, Microwave	Mizushima	PR	83 (1951)	94
		-	-	Freq	Edgell	JPC	56 (1952)	326
		-	G	Microwave	Kojima	JCP	20 (1952)	804
		-	-	FC	Pontarelli	JCP	20 (1952)	1949
		2-15μ	L	Spec, Solvent	Pristera	APS	6 (1952)	29
		2-15μ	L	Spec, Solvent	Tarpley	AC	24 (1952)	315
		-	-	Sum rule	Bernstein	JCP	21 (1953)	2188
		-	-	Freq, Product rule	Pitzer	JCP	21 (1953)	858
		40-50μ	L	Spec	Plyler	JOSA	43 (1953)	212

		-	-	Microwave	Herrmann	JCP	22 (1954)	2093
		1-2.9μ	L,Sol	Spec, Assign	Kaye	SA	6 (1954)	257
		-	-	Mol anal, I	Kaye	AC	26 (1954)	428
		-	-	NCA	Long	PRS	223 (1954)	130
		-	-	Microwave	Sterzer	JCP	22 (1954)	2094
		-	-	Mol consts, dipole effect	Krupp	JCP	24 (1956)	355
		-	-	Rot, Vib interact	Meal	JCP	24 (1956)	1126
		.5-13μ	L	Dispersion	Jaffe	JOSA	47 (1957)	782
		-	-	Freq	Wilmshurst	CJC	35 (1957)	937
$CHBr_3^{79}$	Bromoform (isotopic)	-	-	Microwave, Struct	Kojima	JCP	20 (1952)	804
$CHBr_3^{81}$	Bromoform (isotopic)	-	-	Microwave, Struct	Kojima	JCP	20 (1952)	804
$CHBr^{81}Br_2^{79}$	Bromoform (isotopic)	-	-	Microwave, Struct	Kojima	JCP	20 (1952)	804
$CHBr^{81}Br^{79}$	Bromoform (isotopic)	-	-	Microwave, Struct	Kojima	JCP	20 (1952)	804
$CHClF_2$	Chlorodifluoromethane	-	-	Freq, Assign	Glockler	JCP	8 (1940)	699
		-	-	Mol Anal, Thermo	Glockler	JCP	9 (1941)	224
		-	-	Freq, Assign	Wu	JCP	10 (1942)	116
		2-29μ	G	Spec, Assign	Plyler	JRNB	47 (1951)	202
		-	-	Sum rule	Bernstein	JCP	21 (1953)	2188
		-	-	Vib excit	Amme	JCP	23 (1955)	1960
		-	-	Collision excit	Rossing	JCP	23 (1955)	1118
		-	-	Freq	Wilmshurst	CJC	35 (1957)	937
		270-4000	G	Spec, Assign, NCA, Thermo	Weissman	JCP	29 (1958)	72
		9400 Mc/sec	G	Absorption	Boggs	JPC	63 (1959)	1127
$CHCl_2F$	Dichlorofluoromethane	-	-	Quant mech	Wilson	JCP	2 (1934)	432
		-	-	Freq, Assign	Glockler	JCP	8 (1940)	699
		-	-	Mol anal, Thermo	Glockler	JCP	9 (1941)	224
		-	-	Thermo	Glockler	JCP	9 (1941)	527
		-	-	Freq, Assign	Wu	JCP	10 (1942)	116
		500-1500	G	Thermo, Spec	Thompson	JCS	- (1948)	1422
		2-38μ	G	Assign, Spec	Plyler	JRNB	47 (1951)	202
		-	-	Sum rule	Bernstein	JCP	21 (1953)	2188
		-	-	Vib excit	Amme	JCP	23 (1955)	1960
		-	-	Collision excit	Rossing	JCP	23 (1955)	1118
		-	-	Freq	Wilmshurst	CJC	35 (1957)	937
		270-4000	G	Spec, Assign, NCA, Thermo	Weissman	JCP	29 (1958)	72
		9400 Mc/sec	G	Absorption	Boggs	JPC	63 (1959)	1127
		402 Mc/sec	G	Temp effect	Boggs	JCP	33 (1960)	1852

$CHCl_3$	Chloroform	1-2.8μ	L	Absorption, Freq	Ellis	PR	19	(1922)	546
		.8-2.0μ	L	Mag rot	Ingersoll	JOSA	6	(1922)	663
		0-2.5μ	L	Spec	Ellis	PR	23	(1924)	48
		2-6.5μ	L	Spec	Daniels	JACS	47	(1925)	2856
		.589-3μ	L	Spec, Assign	Ellis	PR	28	(1926)	25
		2-5μ	Sol	Spec	Bennett	JACS	49	(1927)	50
		.59-2.8μ	L	IR	Ellis	PR	32	(1928)	906
		-	-	Bond link heat	Ellis	PR	33	(1929)	27
		-	-	Overtones	Ellis	TFS	25	(1929)	888
		-	-	Freq, Thermo	Lecomte	TFS	25	(1929)	864
		-	-	Vib	Kettering	PR	35	(1930)	531
		-	L	I	Shearin	PR	36	(1930)	973
		6.7-33μ	G	Transmission	Strong	PR	37	(1931)	1565
		20.7-152μ	G	Spec	Strong	PR	42	(1932)	267
		-	-	Quant mech	Van Vleck	JCP	1	(1933)	219
		-	-	Freq, Assign	Voge	JCP	4	(1936)	137
		2100-2800	Sol	Spec, H bond	Buswell	JACS	60	(1938)	2528
		-	-	Freq	Ellis	JCP	6	(1938)	497
		5.4-11.7μ	L,Sol	Spec, H bond	Gordy	JACS	60	(1938)	605
		-	-	Thermo	Stevenson	JCP	6	(1938)	25
		-	-	Spec	Gordy	JCP	7	(1939)	163
		1-10μ	L	Dispersion, Ref ind	Pittmann	JOSA	29	(1939)	358
		-	-	Vib, Product rule	Redlich	JCP	7	(1939)	856
		-	-	H bond	Rodebush	JPC	43	(1939)	219
		-	-	Freq, Assign	Glockler	JCP	8	(1940)	699
		-	G	Thermo, Chem. equil rev	Pitzer	CR	27	(1940)	39
		-	-	Freq, Thermo	Pitzer	JCP	8	(1940)	711
		-	Sol	H bond	Sutherland	TFS	36	(1940)	889
		-	-	Anal	Glockler	JCP	9	(1941)	224
		-	-	Thermo	Glockler	JCP	9	(1941)	527
		-	-	Freq	Redlich	JCP	9	(1941)	298
		2.5-15μ	-	Spec	Wright	IEC	13	(1941)	1
		-	-	Freq, Assign	Wu	JCP	10	(1942)	116
		-	-	Freq, FC	Edgell	JCP	13	(1945)	539
		2-15μ	L,G	Freq	Jenkins	PR	68	(1945)	99
		-	-	FC	Linnett	TFS	41	(1945)	223
		500-1500	L	Spec	Thompson	PRS	184	(1945)	21
		3-20μ	L	Spec	Torkington	TFS	41	(1945)	184
		-	-	Mol anal	Halverson	RMP	19	(1947)	87
		-	-	Quant mech	Decius	JCP	16	(1948)	214
		24-40μ	-	Freq	Plyler	JCP	16	(1948)	1008
		-	-	Freq, Quant mech	Simanouti	JCP	17	(1949)	245
		-	-	Mol anal, Quant mech	Simanouti	JCP	17	(1949)	734

-	L	FC	Zietlow	PR	75	(1949)	333
2-15μ	-	Spec	Patinkin	JACS	72	(1950)	2778
1200-2000	L	Spec	Cannon	SA	4	(1951)	373
650-7500	G,L	Spec, Assign	Gibian	JACS	73	(1951)	1431
.7-2.7μ	L	Spec	Kaye	JOSA	41	(1951)	658
400-10000	L,G	IR, Freq	Madigan	JCP	19	(1951)	119
3-38μ	G,L	Spec, Assign	Plyler	JRNB	47	(1951)	202
.8-2.7μ	L,Sol	Spec	Kaye	JOSA	42	(1952)	567
4000-12000	G	Spec, Harmonics	Lauer	APS	6	(1952)	29
15-25μ	L	Transparent solvent	Marrison	JSI	29	(1952)	233
-	-	IR, Chem binding	Mecke	JCP	20	(1952)	1935
23-30μ	G	Resolution	Plyler	JRNB	49	(1952)	61
-	-	FC	Pontarelli	JCP	20	(1952)	1949
2-15μ	L	Spec, Solvent	Pristera	APS	6	(1952)	29
8-14.5μ	Sol	Table	Urone	AC	24	(1952)	626
200-2800	L	Spec	Acquista	JOSA	43	(1953)	977
2-16μ	L	Solvent	Anderson	JOSA	43	(1953)	221
-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
-	-	Freq, Product rule	Pitzer	JCP	21	(1953)	855
2-16μ	L	Solvent	Vaughan	JOC	18	(1953)	382
760	L,G,Sol	Freq, I	Whiffen	TFS	49	(1953)	878
-	G	Spec, Anal	Wiggins	JCP	21	(1953)	1368
-	L	Anal	Kaye	AC	26	(1954)	428
.8-3.5μ	L	Spec, Assign	Kaye	SA	6	(1954)	257
-	-	Intensity theory, NCA	Long	PRS	223	(1954)	130
-	G,Sol	Solvent	Bayliss	AJC	8	(1955)	26
3000	Sol	Freq	Bernstein	JCP	23	(1955)	2201
-	-	Freq, FC	Biswas	IJP	29	(1955)	446
.7-2.12μ	L	Spec	Coates	APS	9	(1955)	14
1160-2998	Sol	H bond, I	Halpern	JACS	77	(1955)	4472
-	G	Energy transfer	Sette	JCP	23	(1955)	787
-	-	NCA	Weber	JCP	23	(1955)	2207
-	Sol	I	Liddel	JCP	25	(1956)	173
-	-	Mol inter	Meal	JCP	24	(1956)	1126
-	-	FC, Disso energy	Baughan	TFS	53	(1957)	1046
-	-	Vib, Mol shift	Benson	JCP	27	(1957)	1164
-	-	Depolarizing light	Buckingham	TFS	53	(1957)	884
-	-	Mol consts	Dowling	JMS	1	(1957)	265
.5-16μ	L	Dispersion	Jaffe	JOSA	47	(1957)	782
-	Sol	I	Kagarise	JCP	27	(1957)	827
-	-	Solvent	Pinchas	AC	29	(1957)	334
-	-	Freq	Wilmshurst	CJC	35	(1957)	937
-	G	Microwave	Weatherly	DA	18	(1958)	1469
3μ	Sol	Assoc	Becker	SA	15	(1959)	743

		74000	-	Freq, I	Herranz	ARS	50A	(1959)	69
		250-16500	L	I, Spec, Absorption coeff.	Lisita	OS	6	(1959)	605
		-	-	I	Morcillo	ARS	50A	(1959)	77
		700-3100	-	Freq, Assign, I	Morcillo	SA	15	(1959)	110
		13.2μ	Sol	Absorption	Spell	AC	31	(1959)	621
		-	L	I, Absorption	Lisita	OS	9	(1960)	438
		-	Sol	Freq, H bond	Thompson	ZE	84	(1960)	748
$C^{12}HCl_3{}^{35}$	Chloroform (isotopic)	-	G	Microwave	Ghosh	JCP	20	(1952)	605
$C^{12}HCl_3{}^{37}$	Chloroform (isotopic)	-	G	Microwave	Ghosh	JCP	20	(1952)	605
$CHCl_3O_2$	Chloroform peroxide	-	-	OH at 2.95μ	Schulte	JACS	75	(1953)	2222
CHFO	Formyl fluoride	-	-	C = O	Kagarise	JACS	77	(1955)	1377
		90-160 Mc/sec	G	Microwave, Struct	Baker	JCP	31	(1959)	566
		-	G	Microwave, Struct	LeBlanc	JCP	33	(1960)	598
		500-5000	G	Mol consts, Assign	Stratton	JMS	4	(1960)	373
CHF_3	Fluoroform	-	-	Freq	Glockler	JCP	8	(1940)	699
		-	-	Thermo, Mol anal	Glockler	JCP	9	(1941)	224
		-	-	Thermo	Glockler	JCP	9	(1941)	527
		-	-	Freq, Assign	Wu	JCP	10	(1942)	116
		.7-2.4μ	-	Spec, Assign	Bernstein	JCP	16	(1948)	30
		-	-	Microwave	Gilliam	PR	75	(1949)	1014
		-	-	FC	Pace	JCP	18	(1950)	881
		-	L	Assign	Rank	JCP	18	(1950)	885
		-	-	FC, Thermo	Decker	JCP	19	(1951)	784
		-	-	Press broadening, Microwave	Mizushima	PR	83	(1951)	94
		2-24μ	G	Spec, Assign	Plyler	JRNB	47	(1951)	202
		-	G	Mol spec	Herzberg	N	169	(1952)	997
		-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
		8-21μ	G	Assign	Edgell	JCP	21	(1953)	1901
		-	-	Bond dist	Huggins	JACS	75	(1953)	4126
		-	-	Freq, Assign	McGee	JCP	21	(1953)	242
		-	-	Freq, Product rule	Pitzer	JCP	21	(1953)	855
		2.2-20μ	G	Spec, Assign	Rix	JCP	21	(1953)	1077
		-	G	Spec, Anal	Wiggins	JCP	21	(1953)	1368
		300-3000	-	Freq	Edgell	JCP	22	(1954)	1808
		-	-	Vib excit	Amme	JCP	23	(1955)	1960
		-	-	FC	Palm	JCP	23	(1955)	726
		-	-	Collision excit	Rossing	JCP	23	(1955)	1118

		-	-	Freq	Sheppard	JCP	23	(1955)	582
		-	-	IR	Ayscough	JCP	24	(1956)	944
		-	-	Mol consts	Ayscough	TFS	52	(1956)	960
		-	-	Trans moment	McKean	JCP	24	(1956)	1002
		-	-	Mol interact	Meal	JCP	24	(1956)	1126
		-	G	Heat capacity	Vanderkooi	JPC	60	(1956)	636
		-	-	NCA	Biarge	ARS	A53	(1957)	235
		1200-24000 Mc/sec	G	Spec	Birnbaun	JCP	27	(1957)	360
		1-4 m.m.	-	Mol consts	Burrus	JCP	26	(1957)	391
		-	-	Mol consts	Dowling	JMS	1	(1957)	265
		-	-	Freq	Wilmshurst	CJC	35	(1957)	937
		9400 Mc/sec	G	Absorption	Boggs	JPC	63	(1959)	1127
		74000	-	I, Freq	Herranz	ARS	A50	(1959)	69
		-	-	I	Morcillo	ARS	A50	(1959)	77
		500-3100	-	Freq, Assign, I, Mol consts	Morcillo	SA	15	(1959)	110
		-	G	Freq, Temp effect	Maryott	JCP	32	(1960)	1501
		30-50 μ	G	Spec, Mol consts	Robinson	JCP	32	(1960)	556
$C^{12}HF_3$	Fluoroform (isotopic)	-	G	Microwave	Ghosh	JCP	20	(1952)	605
$C^{13}HF_3$	Fluoroform (isotopic)	-	G	Microwave	Ghosh	JCP	20	(1952)	605
CHF_3O_3S	Trifluoromethane-sulfonic acid	-	-	$CF_3 - SO_3^-$ gr freq	Haszeldine	JCS	-	(1954)	4228
CHF_3S	Trifluoromethanethiol	-	-	gr freq	Haszeldine	JCS	-	(1953)	3219
		3-22 μ	G	Freq, Assign	Dininny	JCP	31	(1959)	1630
$CHIN_4$	5-Iodotetrazole	2-15 μ	S	Spec, Freq	Lieber	AC	23	(1951)	1594
CHI_3	Iodoform	-	-	Vib anal	Glockler	JCP	9	(1941)	224
		-	-	Freq, Assign	Wu	JCP	10	(1942)	116
		800-1250	-	Christiansen effect	Price	JCP	16	(1948)	1157
		2-24 μ	Sol	Spec, Assign	Plyler	JRNB	47	(1951)	202
		-	S	Spec	Ford	JSI	31	(1954)	338
		2-25 μ	S	IR, Assign	Hexter	JCP	24	(1956)	1186
		-	-	Vib shift	Benson	JCP	27	(1957)	1164
CHN_7	5-Azidotetrazole	2-15 μ	S	Ident of prep, Spec, Freq	Lieber	AC	23	(1951)	1594
		-	S	Azide freq	Lieber	JACS	73	(1951)	1313
		-	-	Ident of prep	Patinkin	JACS	77	(1955)	562
CHO	Formylradical	-	G	Assign, NCA	Ewing	JCP	32	(1950)	927

CH_2	Methylene radical	-	-	FC	Penney	PRS	156	(1936)	654
		-	-	C valency	Walsh	DFS	2	(1947)	18
		-	-	Photo anal	Milligan	JCP	29	(1958)	1405
CH_2DBr	Bromomethane-d_1	-	-	Freq, FC	DeHemptinne	TFS	42	(1946)	5
		-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
		-	-	FC, Thermo	Dowling	JCP	23	(1955)	700
CH_2DCl	Chloromethane-d_1	-	-	Freq, FC	DeHemptinne	TFS	42	(1946)	5
$C^{12}H_2DCl$	Chloromethane-d_1 (isotopic)	-	G	Microwave	Matlack	JCP	18	(1950)	332
CH_2DI	Iodomethane-d_1	-	-	Freq, FC	DeHemptinne	TFS	42	(1946)	5
		-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
CH_2DNO	Formamide-d_1	-	-	Spec	Kurland	JCP	27	(1957)	585
		300-3600	L	Spec, Assign, NCA	Suzuki	BCSJ	33	(1960)	1359
CH_2DNO_2	Formohydroxamic acid-o-d_1	700-4000	S,Sol	Spec, Struct, H bond	Hadzi	SA	10	(1958)	38
CH_2D_2	Methane-d_2	-	-	Freq, Mol interact	Johnston	PR	48	(1935)	868
		-	-	Quant mech	Wilson	JCP	3	(1935)	276
		-	-	Freq, Assign	Macwood	JCP	4	(1936)	402
		900-3200	C	Assign, Anal	Benedict	JCP	5	(1937)	1
		-	-	Vib, Product rule	Redlich	JCP	7	(1939)	856
		-	-	Quant mech	Shaffer	JCP	12	(1944)	494
		-	-	Mol anal	Halverson	RMP	19	(1947)	87
		-	-	Force field, Freq	Linnett	TFS	45	(1949)	39
		-	-	Freq, Quant mech	Simanouti	JCP	17	(1949)	245
		-	-	Vib anal, Quant mech	Simanouti	JCP	17	(1949)	734
		-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
		-	-	Partition function	Dainton	TFS	53	(1957)	1204
		900-3500	G	Spec, Assign	Wilmshurst	CJC	35	(1957)	226
		1100-3000	-	Freq, I	Hiller	JMS	5	(1960)	24
CH_2D_2O	Methanol-d_2	-	L,G	Spec	Bosschioter	JCP	5	(1937)	992
		-	-	Freq, Assign	Halford	JCP	5	(1937)	927
		2.5-24 μ	G	Spec, Assoc	Barker	JCP	6	(1938)	563
		-	-	Freq	DeHemptinne	TFS	42	(1946)	5
		-	-	Mol anal	Halverson	RMP	19	(1947)	87
CH_2D_3N	Methyl-d_3-amine	400-3500	-	Vib assign, Mol struct	Gray	JCP	26	(1957)	690
		-	G	Microwave	Sastry	PIAS	A51	(1960)	301

CH_2BrCl	Bromochloromethane	-	-	Freq, Assign	Wu	JCP	10	(1942)	116
		2.3-16μ	G	Struct	Plyler	PR	83	(1951)	244
		1.6-2.3μ	G	Spec, Mol anal	Plyler	JRNB	49	(1952)	1
		-	-	Ident	Baker	AC	25	(1953)	1457
		-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
		400-3000	L,G	IR, Thermo, FC	Weber	JCP	21	(1953)	930
		-	-	Freq	Wilmshurst	CJC	35	(1957)	937
CH_2BrF	Bromofluoromethane	-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
		-	-	Freq	Wilmshurst	CJC	35	(1957)	937
CH_2BrI	Bromoiodomethane	-	-	Freq, Assign	Wu	JCP	10	(1942)	116
		-	-	Freq	Wilmshurst	CJC	35	(1957)	937
CH_2Br_2	Dibromomethane	0-2.5μ	L	Spec	Ellis	PR	23	(1924)	48
		.589-2.4μ	L	Spec, Assign	Ellis	PR	28	(1926)	25
		-	-	Thermo	Stevenson	JCP	6	(1938)	25
		--	-	Vib, Product rule	Redlich	JCP	7	(1939)	856
		-	-	Thermo	Edgell	JCP	9	(1941)	484
		-	-	Thermo	Glockler	JCP	9	(1941)	527
		.8-8.5μ	L	Refr ind, Dispersion	Mahan	JOSA	31	(1941)	248
		-	-	Assign, Freq	Wu	JCP	10	(1942)	116
		-	-	FC	Linnett	TFS	41	(1945)	223
		-	-	Mol anal	Halverson	RMP	19	(1947)	87
		-	-	Quant mech	Decius	JCP	16	(1948)	214
		2-36μ	L	Spec, Assign	Plyler	JRNB	44	(1950)	503
		3-18μ	G	Spec, Mol anal	Plyler	JRNB	47	(1951)	202
		2.3-16μ	G	Struct	Plyler	PR	83	(1951)	244
		1.6-2.3μ	G	Spec, Mol anal, Mol consts	Plyler	JRNB	49	(1952)	1
		2-15μ	L	Spec, Solvents	Tarpley	AC	24	(1952)	315
		-	-	Ident	Baker	AC	25	(1953)	60
		-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
		-	-	Freq	Mizushima	JCP	21	(1953)	215
		-	-	Freq, Product rule	Pitzer	JCP	21	(1953)	855
		-	-	FC, Thermo	Dowling	JCP	22	(1954)	1042
		-	-	Mol anal	Kaye	AC	26	(1954)	428
		.8-3.5μ	L,Sol	Spec, Assign, I	Kaye	SA	6	(1954)	257
		-	-	I, NCA	Long	PRS	223	(1954)	130
		-	-	I	True	PR	99	(1955)	1624
		-	-	Vib, Shifts	Benson	JCP	27	(1957)	1164
		1-8μ	L	Summary	Jaffe	JOSA	47	(1957)	782
		-	-	Freq	Wilmshurst	CJC	35	(1957)	937
CH_2ClF	Chlorofluoromethane	-	-	Freq assign	Glockler	JCP	8	(1940)	699
		-	-	Thermo	Glockler	JCP	9	(1941)	527

		-	-	Freq, Assign	Wu	JCP	10	(1942)	116
		2-30 μ	G	Absorption bands	Plyler	JRNB	45	(1950)	204
		-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
		-	-	Microwave	Wuller	JACS	75	(1953)	860
		-	-	Vib excit	Amme	JCP	23	(1955)	1960
		-	-	Collision excit	Rossing	JCP	23	(1955)	1118
		-	-	Freq	Wilmshurst	CJC	35	(1957)	937
		4230-4550	G	IR, Mol consts	Porto	JMS	3	(1959)	248
CH_2ClI	Chloroiodomethane	-	-	Freq	Wilmshurst	CJC	35	(1957)	937
CH_2Cl_2	Dichloromethane	0-2.5 μ	L	Spec	Ellis	PR	23	(1924)	48
		.589-3 μ	-	Spec, Assign	Ellis	PR	28	(1926)	25
		-	-	Vib theory	Yates	PR	36	(1930)	555
		-	-	Quant mech	Van Vleck	JCP	1	(1933)	219
		-	-	Quant mech	Wilson	JCP	2	(1934)	432
		2-12 μ	L	Spec, Assign	Corin	PRS	165	(1938)	43
		-	-	Thermo	Stevenson	JCP	6	(1938)	25
		-	G	Thermo, Chem equil	Pitzer	CR	27	(1940)	39
		-	-	Freq, Thermo	Pitzer	JCP	8	(1940)	711
		-	-	Thermo	Glockler	JCP	9	(1941)	527
		.7-8.5 μ	L	Refr. ind, Dispersion	Mahan	JOSA	31	(1941)	248
		2.5-15 μ	-	Anal	Wright	IEC	13	(1941)	1
		-	-	Freq, Assign	Wu	JCP	10	(1942)	116
		-	-	FC	Glockler	RMP	15	(1943)	111
		-	-	FC	Linnett	TFS	41	(1945)	223
		-	-	Freq	Chulanovskii	IANS	12	(1948)	628
		-	-	Quant mech	Decius	JCP	16	(1948)	214
		24-40 μ	-	Freq	Plyler	JCP	16	(1948)	1008
		-	-	Freq, Quant mech	Shimanouchi	JCP	17	(1949)	245
		-	-	Mol anal, Quant mech	Shimanouchi	JCP	17	(1949)	734
		5-11 μ	L	Spec	Morton	JACS	73	(1951)	3300
		2-15 μ	G,L	Assign, Spec	Plyler	JRNB	47	(1951)	202
		2.3-16 μ	G	Struct	Plyler	PR	83	(1951)	244
		.8-2.7 μ	L,Sol	Spec	Kaye	JOSA	42	(1952)	567
		1.6-2.3 μ	G	Spec, Mol anal, Mol consts	Plyler	JRNB	49	(1952)	1
		2-15 μ	L	Spec, Solvent	Pristera	APS	6	(1952)	49
		8-14.5 μ	Sol	Table, Band freq	Urone	AC	24	(1952)	626
		-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
		650-1300	Sol	Anal	Bernstein	AC	25	(1953)	139
		2-15 μ	L,G	IR, Assign	Hawkins	JCP	21	(1953)	360
		-	-	Freq	Mizushima	JCP	21	(1953)	215
		-	-	Freq, Product rule	Pitzer	JCP	21	(1953)	855

		-	-	Anal	Kaye	AC	26	(1954)	428
		.8-3.4μ	L,Sol	Spec, Vib, Assign	Kaye	SA	6	(1954)	257
		-	-	NCA	Long	PRS	223	(1954)	130
		-	L	Anal	Semeluk	JACS	76	(1954)	3793
		-	-	Vib amp theory	Morino	JCP	23	(1955)	737
		-	G	Energy transfer	Sette	JCP	23	(1955)	787
		742-3048	G	NCA, Bond mom, I	Straley	JCP	23	(1955)	2183
		-	-	I	True	PR	99	(1955)	1624
		-	-	Vib, Vap liq shift	Benson	JCP	27	(1957)	1164
		1-8μ	L	Summary	Jaffe	JOSA	47	(1957)	782
		800-3200	Sol	I	Mallard	JCP	27	(1957)	877
		-	-	Freq	Wilmshurst	CJC	35	(1957)	937
		-	-	Solvent	Matheson	AC	30	(1958)	63
		-	Sol	I	Josien	CPR	249	(1959)	256
		13.5μ	Sol	Absorption	Spell	AC	31	(1959)	621
$CH_2Cl_2^{35}$	Dichloromethane (isotopic)	-	-	Microwave	Myers	JCP	20	(1952)	1420
$CH_2Cl^{35}Cl^{37}$	Dichloromethane (isotopic)	-	-	Microwave	Myers	JCP	20	(1952)	1420
$CH_2Cl_2^{37}$	Dichloromethane (isotopic)	-	-	Microwave	Myers	JCP	20	(1952)	1420
CH_2F_2	Difluoromethane	-	-	Thermo	Glockler	JCP	9	(1941)	527
		-	-	Freq, Assign	Wu	JCP	10	(1942)	116
		-	-	Quant mech	Shaffer	JCP	12	(1944)	494
		-	-	FC	Linnett	TFS	41	(1945)	223
		-	-	Bond dist	Bernstein	JCP	16	(1948)	30
		2.5-20μ	G	Mol anal	Stewart	PR	75	(1949)	640
		-	-	FC	Pace	JCP	18	(1950)	881
		-	L	Assign	Rank	JCP	18	(1950)	885
		2-30μ	G	Assign, Spec	Plyler	JRNB	47	(1951)	202
		-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
		-	-	Bond dist	Huggins	JACS	75	(1953)	4126
		-	-	Freq, Product rule	Pitzer	JCP	21	(1953)	855
		-	-	Vib excit	Amme	JCP	23	(1955)	1960
		-	-	FC	Meister	PR	100	(1955)	1267
		-	-	FC	Palm	JCP	23	(1955)	726
		-	-	Collision excit	Rossing	JCP	23	(1955)	1118
		-	-	Freq	Sheppard	JCP	23	(1955)	582
		-	-	Trans moment	McKean	JCP	24	(1956)	1002
		-	-	Freq	Wilmshurst	CJC	35	(1957)	937
		9400 Mc/sec	G	Absorption	Boggs	JPC	63	(1959)	1127
		4230-4550	G	IR, Mol consts	Porto	JMS	3	(1959)	248
$CH_2F_3O_3P$	Trifluoromethylphosphonic-acid	-	-	Group freq	Emeleus	JCS	-	(1955)	563

$CH_2F_3O_3As$	Trifluoromethylarsonic acid	-	-	gr freq	Emeleus	JCS	- (1954)	881
CH_2F_3P	Trifluoromethylphosphine	-	-	Ident, Freq	Bennett	JCS	- (1954)	3896
CH_2F_3As	Trifluoromethylarsine	-	-	gr freq	Bennett	JCS	- (1953)	155[illegible]
CH_2I_2	Diiodomethane	.8-2.0μ	L	Magnetic rotation	Ingersoll	JOSA	6 (1922)	663
		0-2.5μ	L	Spec	Ellis	PR	23 (1924)	48
		.589-2.4μ	L	Spec, Assign	Ellis	PR	28 (1926)	25
		1-8.5μ	L	Refr ind, Dispersion	Mahan	JOSA	31 (1941)	248
		-	-	Freq, Assign	Wu	JCP	10 (1942)	116
		-	-	FC	Linnett	TFS	41 (1945)	223
		2-38μ	L	Spec, Assign	Plyler	JRNB	47 (1951)	202
		715	L	I	Willis	AJSR	A4 (1951)	172
		-	-	Ident	Baker	AC	25 (1953)	1457
		600-2200	L	Spec, Assign, Thermo	Voelz	JOSA	43 (1953)	1061
		1-8μ	L	Summary	Jaffe	JOSA	47 (1957)	782
		-	-	Freq	Wilmshurst	CJC	35 (1957)	937
		9μ	L	Absorption	Kagarise	JCP	31 (1959)	1258
CH_2N_2	Cyanamide	1400-1800	-	Spec	Barnes	IEC	15 (1943)	659
CH_2N_2	Diazomethane	-	G	Absorp band	Ramsay	JCP	17 (1949)	666
		400-4500	G	Spec, Assign	Grawford	JCP	19 (1951)	406
		700-3500	G	Spec, Assign, Mol anal	Mills	TFS	50 (1954)	1270
		2-30μ	G	Spec, Assign, Mol anal	Fletcher	JCP	25 (1956)	50
		2-15μ	G	Spec	Pierson	AC	28 (1956)	1218
		19000-90000 Mc/sec	G	Microwave, Mol consts	Cox	N	181 (1958)	1000
		1000-3200	S	Spec	Milligan	JCP	29 (1958)	1405
CH_2N_4	Tetrazole	2-15μ	S	Spec, Freq	Lieber	AC	23 (1951)	1594
CH_2N_4S	5-Amino-1,2,3,4-Thiatrizole	700-1700	S	Spec, Struct, Assign	Lieber	CJC	36 (1958)	801
$CH_2N_6O_2$	5-Nitroaminotetrazole	2-15μ	S	Spec, Freq	Lieber	AC	23 (1951)	1594
$CH_2N_6O_2$	Nitroguanylazide	2-15μ	S	Spec, Freq	Lieber	AC	23 (1951)	1594
CH_2O	Formaldehyde	Vis-3.6μ	G	Absorption	Salant	PR	33 (1929)	640
		0-7μ	G	Spec, Freq	Patty	PR	39 (1932)	957

-	-	Mol consts	Villars	CR	11	(1932)	369
-	-	Freq	Mecke	TFS	30	(1934)	200
1-11μ	G	Spec, Absorption	Nielsen	PR	45	(1934)	117
-	-	IR	Nordsiek	PR	45	(1934)	133
-	-	Quant mech	Wilson	JCP	2	(1934)	432
-	-	Struct	Mulliken	JCP	3	(1935)	564
-	-	FC	Sutherland	PRS	148	(1935)	250
1-11μ	G	Spec	Ebers	JCP	5	(1937)	84
3-10μ	G	Spec, Quant mech	Ebers	JCP	5	(1937)	822
-	G	FC	Thompson	JCS	-	(1937)	1384
-	G	FC, Bond dist	Thompson	JCS	-	(1937)	1396
-	-	Quant mech	Badger	JCP	6	(1938)	711
2-13μ	G	Struct, Anal	Ebers	JCP	6	(1938)	311
-	-	Thermo	Stevenson	JCP	6	(1938)	25
-	-	Coriolis coupling theory	Jahn	PR	56	(1939)	680
-	G	Thermo, Chem rev	Pitzer	CR	27	(1940)	39
-	-	Freq, Thermo	Pitzer	JCP	8	(1940)	711
-	-	Freq, Thermo	Thompson	TFS	37	(1941)	251
1200-1800	-	Freq, Spec	Barnes	IEC	15	(1943)	659
3.3μ	G	Vib	Nielsen	JOSA	34	(1944)	521
-	-	FC	Linnett	TFS	41	(1945)	223
-	-	FC, Band dist	Gordy	JCP	14	(1946)	305
-	-	Mol anal	Halverson	RMP	19	(1947)	87
10-20μ	G	Absorption	Singer	PR	71	(1947)	531
-	-	FC	Walsh	TFS	43	(1947)	60
-	-	FC	Walsh	TFS	43	(1947)	158
-	G	Freq	Hartwell	JCS	-	(1948)	1436
-	-	Mol anal, Force field	Linnett	TFS	45	(1949)	832
-	G	Anal	Badin	JACS	72	(1950)	832
5-20μ	L,G	Freq, Coriolis perturbation	Brand	TFS	46	(1950)	805
-	-	Microwave	Lawrance	PR	83	(1951)	363
-	-	FC	Torking	PRS	206	(1951)	17
-	-	HDCo study	Davidson	JCP	22	(1954)	289
-	-	Freq, Bond dist	Margoshes	JCP	22	(1954)	381
-	-	I	Eggers	JCP	23	(1955)	221
2-11.5μ	G	Spec	Donovan	JCP	23	(1955)	1592
-	G	NCA, I, Bond mom	Hisatsune	JCP	23	(1955)	487
-	-	Effect of substituents	Kagarise	JACS	77	(1955)	1377
-	-	Vib amp theory	Morino	JCP	23	(1955)	737
-	-	Spec, Effect of substituents	Pinchas	AC	27	(1955)	2
-	G	Spec, React study	Neu	JPC	60	(1956)	320
2-15μ	G	Spec	Pierson	AC	28	(1956)	1218

		-	-	Bond energy, Ion pot	Reed	TFS	52	(1956)	1195
		3-25μ	S,G	Spec, Assign	Schneider	TFS	52	(1956)	13
		-	G	Freq	Bellamy	JCS	-	(1957)	4294
		3-10μ	G	Spec, Mol const	Blau	JMS	1	(1957)	124
		14488-16038 Mc/sec	G	Mol consts	Thaddeus	JCP	31	(1959)	1677
CH_2O_2	Formic acid	-	Sol	Spec	Plyler	JCP	2	(1934)	1306
		2400-4000	-	Spec, H bond	Barnes	JCP	4	(1936)	722
		-	-	H bond	Gillette	JACS	58	(1936)	1135
		.98μ	G	Spec	Herzberg	PR	50	(1936)	390
		-	-	Spec	Badger	JCP	5	(1937)	369
		9000-11000	L	Spec, H bond	Badger	JCP	5	(1937)	839
		10000-10275	G	Spec, H bond	Bauer	JCP	5	(1937)	852
		.9-4μ	L,Sol	Spec, H bond	Krusey	JCP	5	(1937)	399
		-	-	Quant mech	Badger	JCP	6	(1938)	711
		1-15μ	G	Spec, H bond	Bonner	JCP	6	(1938)	531
		-	-	Association	Coop	JCP	6	(1938)	905
		-	-	Freq	Ellis	JCP	6	(1938)	97
		1-15μ	G	Spec, H bond	Hofstadter	JCP	6	(1938)	540
		-	-	Assign, Spec	Thompson	JCP	7	(1939)	453
		-	-	H bond	Herman	JCP	8	(1940)	252
		1-15μ	G	Spec	Herman	JCP	8	(1940)	447
		-	G	Mol struct	Smith	PR	57	(1940)	1078
		-	-	FC	Linnett	TFS	41	(1945)	223
		-	-	FC, Bond dist	Gordy	JCP	14	(1946)	305
		-	-	FC	Halford	JCP	14	(1946)	395
		-	-	FC	Walsh	TFS	43	(1947)	158
		800-4000	G	Spec, Assign	Williams	JCP	15	(1947)	232
		-	G	Freq	Hartwell	JCS	-	(1948)	1436
		2600-3500	Sol	H bond	Chulanovskii	DANS	68	(1949)	1033
		-	-	H bond, Thermo	Westrum	JACS	71	(1949)	1940
		2800-3100	Sol	Spec	Pozefsky	AC	23	(1951)	1611
		-	-	Thermo	Waring	CR	51	(1952)	171
		-	L	Spec	Fowler	JOSA	43	(1953)	1054
		200-1400	L	Spec, Assign	Hadzi	PRS	216	(1953)	247
		-	-	Microwave, Struct	Trambarulo	JCP	22	(1954)	1622
		-	-	Microwave, I	Lerner	JCP	23	(1955)	210
		-	-	H bond	Lippincott	JCP	23	(1955)	1099
		1600-3700	G,Sol	ν_{OH}, ν_{OD}	Bratoz	SA	8	(1956)	249
		3500-650	L,S	Spec, Assign, Freq	Chapman	JCS	-	(1956)	225
		2-15μ	S,L	Spec, Bond dist	Pierson	AC	28	(1956)	1218
		-	-	Spec	Reed	TFS	52	(1956)	1195

		-	G	Bond energy	Neu	JPC	60	(1956)	320
		20000-50000 Mc/sec	-	Spec, Mol consts, Struct	Lerner	JCP	27	(1957)	680
		500-2000	G	Assign	Millikan	JCP	26	(1957)	1305
		-	-	Dipole moment	Erlandsson	AF	14	(1958)	61
		-	G	Spec	Erlandsson	JCP	28	(1958)	71
		1240-1990	-	Dehydrogenation mech	Hirota	BCSJ	31	(1958)	861
		625-3800	S	Spec, Assign	Millikan	JACS	80	(1958)	3515
		1000-2000	S	Spec, Dissociation	Hirota	BCSJ	32	(1959)	1261
		45-100	G	Spec	Hirota	NKZ	80	(1959)	700
		400-800	G,S	Spec, NCA	Miyazawa	JCP	30	(1959)	1076
		1600-3500	S	Spec, Assign	Clarke	TFS	56	(1960)	534
		-	G	Spec, Mol const, Struct	Kwei	JCP	32	(1960)	1592
		65-300	G	Spec	Nakai	NKZ	81	(1960)	881
CH_3	Methyl Radical	-	-	Struct	Mulliken	JCP	1	(1933)	492
		-	-	Quant mech	Van Vleck	JCP	1	(1933)	219
		-	-	Theory	Gorin	JCP	7	(1939)	633
		-	-	C valency	Walsh	DFS	2	(1947)	18
		-	-	Partition fn	Dainton	TFS	53	(1957)	1204
CH_3D	Methane-d_1	-	-	Mom of inertia	Barker	JCP	2	(1934)	299
		3-10μ	G	Spec, Assign	Ginsburg	JCP	3	(1935)	669
		-	-	Freq, Mol interact	Johnston	PR	48	(1935)	868
		-	-	Quant mech	Wilson	JCP	3	(1935)	276
		-	-	Freq, Assign	Mackwood	JCP	4	(1936)	402
		900-3200	G	Assign, Anal	Benedict	JCP	5	(1937)	1
		8400-13000	G	Spec, Mol consts	Childs	PRS	169	(1938)	428
		-	-	Vib, Product rule	Redlich	JCP	7	(1939)	856
		-	-	Freq, Assign	Wu	JCP	10	(1942)	116
		-	-	Product rule	Edgell	JCP	13	(1945)	377
		-	-	Isotopic effect, Ratio rule	Edgell	JCP	13	(1945)	539
		-	-	Mol anal	Halverson	RMP	19	(1947)	87
		-	-	Force field, Freq	Linnett	TFS	45	(1949)	39
		-	-	Freq, Quant mech	Simanouti	JCP	17	(1949)	245
		-	-	Mol anal, Quant mech	Simanouti	JCP	17	(1949)	734
		-	G	Anal	Brown	AC	23	(1951)	673
		-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
		4.5μ	G	Mol anal	Boyd	PRS	216	(1953)	1281
		-	-	Mol consts	Boyd	TFS	49	(1953)	143
		-	-	Mol interact	Meal	JCP	24	(1956)	1126
		-	-	Partition fn	Daintoz	TFS	53	(1957)	1204
		900-3500	G	Spec, Freq	Wilmshurst	CJC	35	(1957)	226

		1100-3000	-	Freq, I	Hiller	JMS	5	(1960)	24
		2900-3100	G	Spec, Freq, I, Assign	Jones	JMS	4	(1960)	84
CH_3DO	Methanol-d_1	-	-	Freq, Assign	Halford	JCP	5	(1937)	927
		2.5-24μ	G	Spec, Assoc	Barker	JCP	6	(1938)	563
		-	-	Thermo	Halford	JCP	6	(1938)	571
		-	L,Sol	Solvent	Gordy	JCP	7	(1939)	93
		-	L,Sol	Solvent	Gordy	JCP	8	(1940)	170
		-	L	Solvent	Gordy	JCP	9	(1941)	204
		-	-	Freq	Noether	JCP	10	(1942)	693
		-	L	D exchange	Williams	JACS	64	(1942)	2684
		-	-	Ratio rule	Noether	JCP	11	(1943)	97
		-	-	Freq, FC	DeHamptinne	TFS	42	(1946)	5
		3-15μ	G,L	Freq, Assign	Courtoy	ASS	61	(1947)	139
		-	-	Mol anal	Halverson	RMP	19	(1947)	87
		-	-	Association	Davies	JCP	16	(1948)	267
		350-800	Sol	H bond	Stuart	JCP	20	(1952)	1977
		-	Sol	H bond	Tamres	JACS	74	(1952)	3375
		-	G,L	Deform band	Quinan	JCP	21	(1953)	1896
		5.2-6.0μ	Sol	H bond	Searles	JACS	75	(1953)	71
		-	Sol	Freq shift	Josien	JCP	22	(1954)	1169
		-	G,Sol	Exchange	Kwart	JACS	76	(1954)	5998
		-	Sol	Solvent	Tamres	JACS	76	(1954)	3983
		-	G	Freq, Assign, Thermo	Ivash	JCP	23	(1955)	1814
		350-4000	L,Sol	Freq	Stuart	JCP	24	(1956)	559
		1000-1500	G	NCA, Assign	Tanaka	SA	9	(1957)	265
		2400-2800	G	Association	Inskeep	JMS	5	(1960)	284
$C^{12}H_3DO^{16}$	Methanol-d_1-(isotopic)	-	-	Microwave	Swalen	JCP	23	(1955)	1739
		-	G	Microwave	Venkateswarlu	JCP	23	(1955)	1195
		-	-	Microwave	Venkateswarlu	JCP	23	(1955)	1200
$C^{13}H_3DO^{16}$	Methanol-d_1-(isotopic)	-	G	Microwave	Swalen	JCP	23	(1955)	1739
		-	-	Microwave	Venkateswarlu	JCP	23	(1955)	1195
		-	-	Microwave	Venkateswarlu	JCP	23	(1955)	1200
CH_3DO	Methanol-O-d_1	-	G,L,Sol	NCA	Tanaka	SA	9	(1957)	265
CH_3D_2N	Methylamine-d_2	400-3500	-	Vib assign, Mol struct	Gray	JCP	26	(1957)	690
CH_3D_3ClN	Methylammonium chloride-d_3	300-6000	S	Spec, Assign, FC	Waldron	JCP	21	(1953)	734
CH_3D_3N	Methylamine-d_3-ion	-	-	FC	Linnett	TFS	41	(1945)	223

$CH_3D_5B_2$	Methyldiborane-d_5	2-15μ	G	Spec, Assign, Freq	Lehmann	JCP	32 (1960)	1088
CH_3Br	Bromomethane	3-14μ	G	Spec, Freq	Bennett	PR	32 (1928)	888
		16μ	G	Spec	Sleator	PR	38 (1931)	147
		1.5-3μ	G	Spec, Freq	Moorhead	PR	39 (1932)	788
		-	G	Spectrometer calibration	Weber	PR	40 (1932)	835
		.7-2.7μ	L	Spectrometer calibration	Ellis	RSI	4 (1933)	123
		-	-	I	Gerhard	PR	43 (1933)	197
		-	G	Assign	Adel	JCP	2 (1934)	627
		-	-	Quant mech	Wilson	JCP	2 (1934)	432
		640-580	G	ν_5 band	Barker	JCP	3 (1935)	367
		-	-	Mol consts	Johnston	PR	48 (1935)	868
		-	-	Bond angle, Energy	Penney	TFS	31 (1935)	734
		-	-	FC	Sutherland	PRS	148 (1935)	250
		-	G	Mol anal	Price	JCP	4 (1936)	539
		-	-	Thermo	Stevenson	JCP	6 (1938)	25
		-	-	Bond dist	Sutherland	TFS	34 (1938)	325
		-	-	Quant mech	Slawsky	JCP	7 (1939)	522
		-	-	Quant mech	Slawsky	JCP	7 (1939)	509
		-	-	Spec	Thompson	JCP	7 (1939)	441
		-	-	Review, Freq	Dennison	RMP	12 (1940)	175
		-	-	FC	Linnett	JCP	8 (1940)	91
		-	-	Quant mech	Mulliken	JCP	8 (1940)	382
		-	-	Thermo, Review	Pitzer	CR	27 (1940)	39
		-	-	FC, Vib freq, Thermo	Pitzer	JCP	8 (1940)	711
		-	-	FC	Crawford	JCP	9 (1941)	69
		-	-	Thermo	Glockler	JCP	9 (1941)	527
		2.8-18μ	G	Spec, Assign	Noether	JCP	10 (1942)	664
		-	-	Freq	Noether	JCP	10 (1942)	693
		-	-	Freq, Assign	Wu	JCP	10 (1942)	116
		-	-	FC, Bond dist	Noether	JCP	11 (1943)	97
		-	-	FC	Warhurst	TFS	40 (1944)	26
		-	-	Ratio rule	Edgell	JCP	13 (1945)	306
		-	-	FC	Linnett	TFS	41 (1945)	223
		-	-	Mom of inertia, Bond angle	Bak	JCP	14 (1946)	698
		-	-	FC, Bond dist	Gordy	JCP	14 (1946)	305
		-	-	Freq, FC	DeHemptinne	TFS	42 (1946)	5
		-	-	FC	Pitzer	JCP	14 (1946)	586
		-	-	Microwave	Feld	PR	72 (1947)	1116
		-	-	Mol anal	Halverson	RMP	19 (1947)	87
		-	-	Quant mech	Decius	JCP	16 (1948)	214
		-	-	Spec	Doiley	AC	21 (1949)	540
		-	G	I, FC	Barrow	PRS	213 (1952)	27
		-	-	NCA	Edgell	JPC	56 (1952)	326

		-	G	Spec	Herzberg	N	169	(1952)	997
		-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
		-	-	Mol consts	Boyd	TFS	49	(1953)	1281
		-	-	Freq, Product rule	Pitzer	JCP	21	(1953)	855
		5800-6200	G	Spec, Assign	Rank	JOSA	43	(1953)	157
		-	-	Microwave	Kraitchman	JCP	22	(1954)	1477
		-	-	NCA	Long	PRS	223	(1954)	130
		-	-	Vib excit	Amme	JCP	23	(1955)	1960
		-	-	Collision excit	Rossing	JCP	23	(1955)	1118
		-	-	Freq	Sheppard	TFS	51	(1955)	1465
		600-4000	G	Spec, Assign, Mol anal	Weissman	JCP	23	(1955)	544
		500-3000	-	Disc	Bellamy	JCS	-	(1956)	2753
		-	-	Mol interact	Meal	JCP	24	(1956)	1126
		-	-	FC	Baughan	TFS	53	(1957)	1046
		1200-24000 Mc/sec	G	Spec	Birnbaun	JCP	27	(1957)	360
		700-1500	G	Freq, Assign	Dickson	JCP	27	(1957)	445
		100-600	G	Spec, Mol consts	Palik	JCP	26	(1957)	1401
		550-1450	S	Freq shift, NCA, I	Dows	JCP	29	(1958)	484
		-	-	Press & temp effect	Krishnaji	PR	109	(1958)	1560
		-	-	Assign	Josien	CPR	246	(1958)	1992
		9400 Mc/sec	G	Absorption	Boggs	JPC	63	(1959)	1127
		2900	G,Sol	Assign, Resonance	Deschamps	BSCF	-	(1959)	88
		-	-	I	Sverdlov	OS	6	(1959)	729
CH_3Br^{79}	Bromomethane-(isotopic)	-	-	Microwave	Gordy	PR	72	(1947)	344
		-	-	Microwave	Mays	JCP	20	(1952)	1695
		-	-	Microwave	Thomas	JCP	22	(1954)	1718
		-	-	Mol consts	Dowling	JMS	1	(1957)	265
$C^{12}H_3Br^{79}$	Bromomethane-(isotopic)	-	G	Microwave	Gordy	PR	74	(1948)	243
CH_3Br^{81}	Bromomethane-(isotopic)	-	-	Microwave	Gordy	PR	72	(1947)	344
		-	G	Microwave	Thomas	JCP	22	(1954)	1718
$C^{12}H_3Br^{81}$	Bromomethane-(isotopic)	-	G	Microwave	Gordy	PR	74	(1948)	243
CH_3Br_2B	Dibromomethylborine	600-4000	-	Spec, Assign	Schabacher	ZAUA	294	(1958)	183
CH_3Br_3Si	Methyltribromosilane	-	-	Assign	Shiwauouchi	JCP	18	(1950)	1306
		-	-	Assign, NCA	Tobin	JACS	75	(1953)	1788
CH_3Cl	Chloromethane	3-14μ	G	Spec, Freq	Bennett	PR	32	(1928)	888
		9.8μ	G	Spec	Barker	TFS	25	(1929)	912

-	L	Freq, Assign	West	TFS	27	(1931)	145
1.5-3μ	G	Spec, Freq	Moorhead	PR	39	(1932)	788
-	-	I	Gerhard	PR	43	(1933)	197
-	G	Assign	Adel	JCP	2	(1934)	627
1.5-7μ	G	Spec, Assign	Nielsen	PR	46	(1934)	970
-	-	Quant mech	Wilson	JCP	2	(1934)	432
760-700	G	ν_5 band	Barker	JCP	3	(1935)	364
-	-	Mol consts	Johnston	PR	48	(1935)	868
-	-	Bond angle, Energy	Penney	TFS	31	(1935)	734
-	-	FC	Sutherland	PRS	148	(1935)	250
-	G	Mol anal	Price	JCP	4	(1936)	539
-	-	Freq, Assign	Voge	JCP	4	(1936)	137
-	-	Thermo	Stevenson	JCP	6	(1938)	25
-	-	Bond dist	Sutherland	TFS	34	(1938)	325
27μ	G	Resolution	Nielsen	PR	56	(1939)	274
-	-	Quant mech	Slawsky	JCP	7	(1939)	522
-	-	Quant mech	Slawsky	JCP	7	(1939)	509
-	-	Bond dist	Sutherland	JCP	7	(1939)	1066
-	-	Spec	Thompson	JCP	7	(1939)	441
-	-	Freq, Review	Dennison	RMP	12	(1940)	175
-	-	FC	Linnett	JCP	8	(1940)	91
-	-	Quant mech	Mulliken	JCP	8	(1940)	382
-	-	Thermo, Review	Pitzer	CR	27	(1940)	711
-	-	Freq, Thermo	Pitzer	JCP	8	(1940)	39
-	-	FC	Crawford	JCP	9	(1941)	69
-	-	Thermo	Glockler	JCP	9	(1941)	527
-	-	Quant mech	Wilson	JCP	9	(1941)	76
2.8-18μ	G	Spec, Assign	Noether	JCP	10	(1942)	664
-	-	Freq	Noether	JCP	10	(1942)	693
-	-	Freq, Assign	Wu	JCP	10	(1942)	116
-	-	Ratio rule	Noether	JCP	11	(1943)	97
-	G	Spec, FC	Nielsen	RMP	16	(1944)	241
-	-	FC	Warhurst	TFS	40	(1944)	26
-	-	Ratio rule	Edgell	JCP	13	(1945)	306
-	-	FC	Linnett	TFS	41	(1945)	223
-	-	Inertia	Bak	JCP	14	(1946)	698
-	-	FC, Bond dist	Gordy	JCP	14	(1946)	305
-	-	Freq, FC	DeHemptinne	TFS	42	(1946)	5
-	-	FC	Pitzer	JCP	14	(1946)	586
-	-	Microwave	Feld	PR	72	(1947)	1116
-	-	Mol anal	Halverson	RMP	19	(1947)	87
-	-	Valency	Walsh	DFS	2	(1947)	18
-	-	Freq	Chulanovskii	IANS	12	(1948)	628
-	-	Quant mech	Decius	JCP	16	(1948)	214
-	-	Ext coeff	Claiborne	AC	21	(1949)	1165

		-	-	Micro spec	Dailey	AC	21	(1949) 540
		-	-	Freq, Quant mech	Simanouti	JCP	17	(1949) 245
		-	-	Mol anal, Quant mech	Simanouti	JCP	17	(1949) 734
		-	-	Freq	Sheppard	TFS	46	(1950) 429
		-	G	FC, I	Barrow	PRS	213	(1952) 27
		15-25 μ	L	Solvent	Marrison	JSI	29	(1952) 233
		-	G	Microwave	Simmons	JCP	20	(1952) 122
		-	-	Sum rule	Bernstein	JCP	21	(1953) 2188
		-	-	Mol consts	Boyd	TFS	49	(1953) 1281
		-	-	Centrifugal distortion	Chang	JCP	21	(1953) 1293
		-	-	Freq, Product rule	Pitzer	JCP	21	(1953) 855
		-	-	Microwave	Kraitchman	JCP	22	(1954) 1477
		-	-	I, NCA	Long	PRS	223	(1954) 130
		-	-	Freq	Lord	JCP	22	(1954) 542
		3.5-7.4 μ	G	Spec, Mol consts	Pickworth	TFS	50	(1954) 218
		-	Sol,G	I	Starley	PR	95	(1954) 300(A)
		-	-	Vib excit	Amme	JCP	23	(1955) 1960
		-	-	Mol const	Bratoz	JCP	23	(1955) 159
		-	-	Vib amp theory	Morino	JCP	23	(1955) 737
		-	-	Collision excit	Rossing	JCP	23	(1955) 1118
		-	G	Energy transfer	Sette	JCP	23	(1955) 787
		-	-	Freq	Sheppard	TFS	51	(1955) 1465
		-	-	Freq	Wilmshurst	JCP	23	(1955) 2463
		500-3000	-	Review	Bellamy	JCS	-	(1956) 2753
		2-15 μ	G	Spec	Lacher	JPC	60	(1956) 492
		-	-	Mol interact	Meal	JCP	24	(1956) 1126
		2-15 μ	G	Spec	Pierson	AC	28	(1956) 1218
		-	-	Vib, Vap-Liq shift	Benson	JCP	27	(1957) 1164
		1200-24000 Mc/sec	G	Spec, Resonance	Birnbaun	JCP	27	(1957) 360
		1000-3200	G	Freq, Assign, Bond mom	Dickson	JCP	27	(1957) 445
		100-600	G	Spec, Mol consts	Palik	JCP	26	(1957) 1401
		5980-6040	G	Mol anal, Mol consts	Brown	JCP	28	(1958) 384
		2800-3800	L,G	Spec	Cromwell	JACS	80	(1958) 4573
		600-1450	S	Shift freq, Assign, I	Dows	JCP	29	(1958) 484
		-	-	Press & temp effect	Krishnaji	PR	109	(1958) 1560
		3000	-	Assign	Josien	CPR	246	(1958) 1992
		9400 Mc/sec	G	Absorption	Boggs	JPC	63	(1959) 1127
		2900	G,Sol	Assign, Resonance	Deschamps	BSCF	-	(1959) 88
		-	-	I	Sverdlov	OS	6	(1959) 729
		402 Mc/sec	G	Temp effect	Boggs	JCP	33	(1960) 1852
CH_3Cl^{35}	Chloromethane (isotopic)	-	-	Microwave	Gordy	PR	72	(1947) 344

		-	-	Microwave	Mays	JCP	20 (1952)	1695
		3.5-7.4 μ	G	Spec, Mol consts	Pickworth	TFS	50 (1954)	218
		-	G	Microwave	Thomas	JCP	22 (1954)	1718
		-	-	Mol consts	Dowling	JMS	1 (1957)	265
CH_3Cl^{36}	Chloromethane (isotopic)	-	-	Mol consts	Fletcher	PR	99 (1955)	613
CH_3Cl^{37}	Chloromethane (isotopic)	-	-	Microwave	Gordy	PR	72 (1947)	344
		-	-	Mol consts	Pickworth	TFS	50 (1954)	218
$C^{12}H_3Cl^{35}$	Chloromethane (isotopic)	-	G	Microwave	Gordy	PR	74 (1948)	243
		-	G	Microwave	Dailey	PR	76 (1949)	136
		-	G	Microwave	Matlack	JCP	18 (1950)	332
$C^{12}H_3Cl^{37}$	Chloromethane (isotopic)	-	G	Microwave	Gordy	PR	74 (1948)	243
		-	G	Microwave	Dailey	PR	76 (1949)	136
		-	G	Microwave	Matlack	JCP	18 (1950)	332
$C^{13}H_3Cl$	Chloromethane (isotopic)	-	G	Microwave	Matlack	JCP	18 (1950)	332
$C^{13}H_3Cl^{35}$	Chloromethane (isotopic)	-	G	Microwave	Dailey	PR	76 (1949)	136
		-	G	Microwave	Matlack	JCP	18 (1950)	332
$C^{13}H_3Cl^{37}$	Chloromethane (isotopic)	-	G	Microwave	Dailey	PR	76 (1949)	136
		-	G	Microwave	Matlack	JCP	18 (1950)	332
CH_3ClO_2S	Methanesulphonyl chloride	2-25 μ	L	Spec, Assign	Ham	AJC	6 (1953)	33
		6-9 μ	L,G,Sol	Assign	Haszeldine	JCS	- (1955)	2901
		-	-	Spec, Assign	Geiseler	ZE	63 (1959)	1140
		-	-	Spec	Merian	HCA	43 (1960)	1122
CH_3Cl_2OPS	Methyl phosphorodi-chloridothionate	740-1500	L	Assign	McIvor	CJC	37 (1959)	869
CH_3Cl_2OB	Dichloromethoxyborane	2-15 μ	G	Spec, Freq. assign	Lehmann	JCP	30 (1959)	1219
CH_3Cl_2P	Methylphosphorous dichloride	400-600	S	P-Cl band	McIvor	CJC	37 (1959)	869
CH_3Cl_2PS	Thiophosphorylmethyl chloride	-	-	Spec, Freq	Popov	ZOK	29 (1959)	1998
CH_3Cl_3OSi	Methoxytrichlorosilane	2-25 μ	-	Assign	Forneris	ZE	62 (1958)	1130
CH Cl Si	Methyltrichlorosilane	11.8-13.4 μ	G	Spec	Fuoss	RSI	16 (1945)	223

		-	-	Spec, Assign	Shimanouchi	JCP	18	(1950)	1306
		-	G, Sol	Freq, Assign	Burnelle	JCP	20	(1952)	1324
		22-25μ	G	Spec, Assign	Smith	JCP	21	(1953)	1997
		-	-	Assign	Tobin	JACS	75	(1953)	1788
		500-3000	-	Freq	Bellamy	JCS	-	(1956)	2753
		400-5000	Sol	Ident	Smith	AC	31	(1959)	1174
		2-16μ	Sol	Spec, Freq	Smith	SA	16	(1960)	87
$CH_3Cl_3^{35}Si^{28}$	Methyltrichlorosilane (isotopic)	-	-	Microwave	Mockler	JCP	21	(1953)	1710
$C^{12}H_3Cl_3^{37}Si^{28}$	Methyltrichlorosilane (isotopic)	-	-	Microwave	Mockler	JCP	21	(1953)	1710
CH_3F	Fluoromethane	3-14μ	G	Spec, Freq	Bennett	PR	32	(1928)	888
		-	-	Spec	Barker	TFS	25	(1929)	912
		10.2-11.2μ	G	Spec	Bennett	JACS	51	(1929)	377
		-	-	I	Gerhard	PR	43	(1933)	197
		-	G	Assign	Adel	JCP	2	(1934)	627
		-	-	Mol consts	Johnston	PR	48	(1935)	868
		-	-	Bond angle, energy	Penney	TFS	31	(1935)	734
		-	-	Force consts	Sutherland	PRS	148	(1935)	250
		-	-	Quant mech	Wilson	JCP	3	(1935)	818
		-	-	Interatomic dist	Sutherland	TFS	34	(1938)	325
		-	-	Quant mech	Slawsky	JCP	7	(1939)	509
		-	-	Quant mech	Slawsky	JCP	7	(1939)	522
		-	-	Spec	Thompson	JCP	7	(1939)	441
		-	-	Freq	Dennison	RMP	12	(1940)	175
		-	-	Force consts	Linnett	JCP	8	(1940)	91
		-	-	Freq, Thermo	Pitzer	JCP	8	(1940)	711
		-	-	Force consts	Cranford	JCP	9	(1941)	69
		-	-	Thermo	Edgell	JCP	9	(1941)	484
		-	-	Thermo	Glockler	JCP	9	(1941)	224
		-	-	Vib anal	Glockler	JCP	9	(1941)	527
		-	-	Freq	Noether	JCP	10	(1942)	693
		-	-	Freq, Assign	Wu	JCP	10	(1942)	116
		-	-	Ratio rule	Noether	JCP	11	(1943)	97
		9.5μ	-	Study of ν_5	Yates	PR	63	(1943)	461
		-	-	Force consts	Linnett	TFS	41	(1945)	223
		-	-	Force consts, Bond dist	Gordy	JCP	14	(1946)	305
		-	-	Force consts	Pitzer	JCP	14	(1946)	586
		3-10μ	G	Spec	Yates	PR	71	(1947)	349
		-	-	Bond dist	Bernstein	JCP	16	(1948)	30
		-	-	Mom of inertia	Skinner	JCP	16	(1948)	553
		-	-	Microwave	Gilliam	PR	75	(1949)	1014

		2-3 mm	G	Microwave	Gilliam	PR	78	(1950)	140
		-	-	Force const	Pace	JCP	18	(1950)	881
		-	-	Microwave	Mizushima	PR	83	(1951)	94
		-	G	I, Force consts	Barrow	PRS	213	(1952)	27
		-	-	Freq	Edgell	JPC	52	(1952)	326
		-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
		-	-	Mol consts	Boyd	TFS	49	(1953)	281
		-	-	Kinetic energy matrix	Crawford	JCP	21	(1953)	1108
		-	-	Bond dist	Huggins	JACS	75	(1953)	4126
		-	-	Freq, Product rule	Pitzer	JCP	21	(1953)	855
		1-2 mm	G	Microwave	King	PR	93	(1954)	407
		2.5-5 μ	G	Spec, Mol const	Pickworth	PRS	222	(1954)	443
		-	-	Freq	Sheppard	JCP	23	(1955)	582
		-	-	Freq	Sheppard	TFS	51	(1955)	1465
		1196-1475	-	Freq	Wilmshurst	JCP	23	(1955)	2463
		-	G	IR, Microwave, Assign	Anderson	JCP	24	(1956)	989
		500-3000	-	Freq	Bellamy	JCS	-	(1956)	2753
		-	-	Trans mom	McKean	JCP	24	(1956)	1002
		-	-	Mol inter	Meal	JCP	24	(1956)	1126
		1200-24000 Mc/sec	G	Spec	Birnbaun	JCP	27	(1957)	360
		100-600	G	Spec, Mol consts	Palik	JCP	26	(1957)	1401
		3000	-	Assign	Josien	CPR	246	(1958)	1992
		2900	G,Sol	Assign, Resonance	Deschamps	BSCF	-	(1959)	88
		-	G	Temp effect	Maryott	JCP	32	(1960)	1501
		865-925	G	Struc	Nielsen	JPR	21	(1960)	24
CH_3F^{19}	Fluoromethane (isotopic)	-	G	Microwave	Thomas	JCP	22	(1954)	1718
CH_3FO_2S	Methanesulphonyl fluoride	985	L	I	Willis	AJSR	4A	(1951)	172
		2-25 μ	L	Spec, Assign	Ham	AJC	6	(1953)	33
		6-9 μ	G	Assign	Haszeldine	JCS	-	(1955)	2901
CH_3FO_3S	Methylfluorosulfonate	2-40 μ	G	Spec	Dudley	JACS	78	(1956)	290
CH_3F_2B	Methyldifluoroborine	-	-	I	Wilson	JCP	23	(1955)	136
		12500-32500 Mc/sec	G	Spec, Moment of inertia	Naylor	JCP	26	(1957)	1057
CH_3F_2As	Methyldifluoroarsine	10.5-20.4 μ Mc/sec	G	Spec, Mol const	Nugent	DA	19	(1959)	3150
CH_3F_3Si	Methyltrifluorosilane	-	-	Microwave	Minden	PR	82	(1951)	338
		2.5-36 μ	L,G	IR, Spec, Assign, Thermo	Collins	JCP	23	(1955)	351

		-	G	Microwave	Minden	PR	98	(1955)	1160
		-	-	Rot barrier	Bak	JCP	24	(1956)	918
		-	G	Microwave	Thomas	ZE	61	(1957)	935
$C^{12}H_3F_3Si^{28}$	Methyltrifluorosilane (isotopic)	-	-	Microwave	Sheridan	PR	77	(1950)	719
CH_3I	Iodomethane	.8-2.0μ	L	Magnetic rotation	Ingersoll	JOSA	6	(1922)	663
		0-2.5μ	L	Spec	Ellis	PR	23	(1924)	48
		.589-2.4μ	L	Spec, Assign	Ellis	PR	28	(1926)	25
		3-14μ	G	Spec, Freq	Bennett	PR	32	(1928)	888
		0-12μ	G	Instrument test	Randall	RSI	2	(1931)	585
		18μ	G	Spec	Sleator	PR	38	(1931)	147
		1.5-3μ	G	Spec, Freq	Moorhead	PR	39	(1932)	788
		20.7-152μ	G	Spec	Strong	PR	42	(1932)	267
		-	G	Calibration	Weber	PR	40	(1932)	835
		-	-	I	Gerhard	PR	43	(1933)	197
		-	G	Assign	Adel	JCP	2	(1934)	627
		520-550	G	ν_5 band	Barker	JCP	3	(1935)	367
		-	-	Mol consts	Johnston	PR	48	(1935)	868
		-	-	Bond angle, Energy	Penney	TFS	31	(1935)	734
		-	-	FC	Sutherland	PRS	148	(1935)	250
		-	G	Mol anal	Price	JCP	4	(1936)	539
		-	-	Mol dist	Sutherland	TFS	34	(1938)	325
		-	-	Quant mech	Slawsky	JCP	7	(1939)	509
		-	-	Quant mech	Slawsky	JCP	7	(1939)	522
		-	-	Spec	Thompson	JCP	7	(1939)	441
		-	-	Review, Freq	Dennison	RMP	12	(1940)	175
		-	-	FC	Linnett	JCP	8	(1940)	91
		-	-	Quant mech	Mulliken	JCP	8	(1940)	382
		-	-	Thermo, Review	Pitzer	CR	27	(1940)	39
		-	-	FC	Crawford	JCP	9	(1941)	69
		-	-	Thermo	Edgell	JCP	9	(1941)	484
		-	-	Energy, Bond freq	Fuagssi	JPC	46	(1942)	630
		3-11μ	G	Spec	Hagemann	JCP	10	(1942)	668
		-	-	Freq	Noether	JCP	10	(1942)	693
		-	-	Freq, Assign	Wu	JCP	10	(1942)	116
		-	-	Ratio rule	Noether	JCP	11	(1943)	97
		-	-	FC	Warhurst	TFS	40	(1944)	26
		-	-	FC	Linnett	TFS	41	(1945)	223
		-	-	Freq, FC	DeHemptinne	TFS	42	(1946)	5
		-	-	FC	Pitzer	JCP	14	(1946)	586
		-	-	Microwave	Gordy	PR	71	(1947)	917
		-	-	Microwave	Gordy	PR	72	(1947)	249

		-	L	IR	Chulanvoskii	IANS	12	(1948)	628
		-	-	Microwave	Gilliam	PR	73	(1948)	635
		-	L,G	IR, Thermo, Assign	Fenlon	JCP	19	(1951)	1561
		-	G	FC, I	Barrow	PRS	213	(1952)	27
		2-15μ	S,L,G	Spec	Mador	JCP	20	(1952)	1837
		-	G	Microwave	Simmons	JCP	20	(1952)	122
		-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
		-	-	Mol consts	Boyd	TFS	49	(1953)	1281
		-	G	Spec, Mol anal	Wiggins	JCP	21	(1953)	1368
		-	-	Spec	Wiggins	JOSA	43	(1953)	330
		-	L,G	IR	Bernstein	JCP	22	(1954)	193
		2-26μ	Sol	Freq shift	Schuler	JCP	22	(1954)	947
		-	-	Freq	Sheppard	TFS	51	(1955)	1465
		500-3000	-	Review	Bellamy	JCS	-	(1956)	2753
		-	-	Mol interact	Meal	JCP	24	(1956)	1126
		-	-	FC, Dissociation energy	Baughan	TFS	53	(1957)	1046
		-	-	Vib, shift	Benson	JCP	27	(1957)	1164
		1200-24000 Mc/sec	G	Spec	Birnbaun	JCP	27	(1957)	360
		300-500	G	I, Vib assign	Dickson	JCP	27	(1957)	445
		100-600	G	Spec, Consts	Palik	JCP	26	(1957)	1401
		510-1450	S	Freq, Band splitting, IR	Dows	JCP	29	(1958)	484
		3000	-	Assign	Josien	CPR	246	(1958)	1992
		2900	G,Sol	Assign	Deschamps	BSCF	-	(1959)	88
		-	G	I	Smirnov	OS	7	(1959)	193
		-	-	I	Sverdlov	OS	6	(1959)	729
$C^{12}H_3I^{125}$	Iodomethane (isotopic)	-	-	Dipole moment, Spec	Fletcher	PR	110	(1958)	536
$C^{12}H_3I^{127}$	Iodomethane (isotopic)	-	G	Microwave	Gordy	PR	74	(1948)	243
		-	G	Microwave	Thomas	JCP	22	(1954)	1718
$C^{12}H_3I^{131}$	Iodomethane (isotopic)	-	-	Dipole moment, Spec	Fletcher	PR	110	(1958)	536
$C^{13}H_3I$	Iodomethane (isotopic)	-	L,G	IR, Spec, Mol consts Assign	Bernstein	JCP	22	(1954)	193
$C^{13}H_3I^{127}$	Iodomethane (isotopic)	-	G	Microwave	Gordy	PR	74	(1948)	243
CH_3N	Methyleneamine	-	-	Freq	Mecke	TFS	30	(1934)	200
CH_3NO	Formaldoxime	-	-	Spec	Zumwalt	JCP	7	(1939)	235
CH_3NO	Formamide	-	L	Spec	Thompson	JCP	7	(1939)	441

		-	-	Force const	Linnett	TFS	41	(1945)	223
		-	L	Config	Tsuboi	BCSJ	22	(1949)	255
		3300	L	Freq, Bonding	Davies	JCP	20	(1952)	342
		15-25 μ	L	Opaque	Marrison	JCI	29	(1952)	233
		650-3800	G,L,Sol	Spec, Assign, Thermo	Evans	JCP	22	(1954)	1228
		-	-	Microwave	Kurland	JCP	23	(1955)	2202
		-	-	Freq, Force const	Miyazawa	JCP	24	(1956)	408
		-	S	H bonding	Pimentel	JCP	24	(1956)	639
		-	G	Microwave, Spec, Struct, Mol consts	Kurland	JCP	27	(1957)	585
		-	Sol	Freq, I	Brown	JPC	63	(1959)	1324
		2700-3700	G	Spec, Band position	Evans	JCP	31	(1959)	1435
		1200-4500	L,Sol	Association, Bonding	Puranik	JMS	3	(1959)	486
		-	G	Microwave, Struct	Costain	JCP	32	(1960)	158
		300-3600	L	Assign, Spec	Suzuki	BCSJ	33	(1960)	1359
$CH_3NO.HCl$	Formamide hydrochloride	650-3800	S	Spec	Evans	JCP	22	(1954)	1228
CH_3NO_2	Fluoropicrin	3000-420	G	Assign	Mason	JCS	-	(1956)	759
CH_3NO_2	Formohydroxymic acid	700-4000	S,Sol	Spec, Struct, Bonding	Hadzi	SA	10	(1958)	38
		900-1700	S	Struct	Parsons	JMS	2	(1958)	566
		2-23 μ	S	Struct, Freq, Assign	Orville	JMS	2	(1958)	203
CH_3NO_2	Methyl nitrite	-	G	Spec	Thompson	JCP	7	(1939)	441
		-	-	Energy, Band freq	Fugassi	JPC	46	(1942)	630
		2-23 μ	G	Spec	D'or	JCP	19	(1951)	1064
		2-25 μ	G	Spec	Tarte	JCP	20	(1952)	1510
		-	G	Assign, Struct	Haszeldine	JCS	-	(1955)	4172
		-	-	Rot, Isom	Tarte	JCP	23	(1955)	979
		-	G,Sol	Correlation between σ^* and ν values	O'Sullivan	JCS	-	(1957)	4144
		1000-3800	-	IR	Brown	JCP	29	(1958)	883
CH_3NO_2	Nitromethane	2-6 μ	L	Spec	Daniels	JACS	47	(1925)	2856
		1-8 μ	L	Spec, Wave length, Assign	Plyler	PR	35	(1930)	605
		-	-	Theo vib anal	Crawford	JCP	9	(1941)	323
		3-25 μ	G	Spec, Assign	Wells	JCP	9	(1941)	314
		2-15 μ	-	Spec	Nielsen	IEC	15	(1943)	609
		-	-	Ratio rule	Noether	JCP	11	(1943)	97
		-	-	Assign	Wilson	JCP	11	(1943)	361
		-	-	Force const	Linnett	TFS	41	(1945)	223
		3-20 μ	L	Spec	Torkington	TFS	41	(1945)	184

		-	-	Vib anal	Halverson	RMP	19	(1947)	87
		2-22μ	G,L	IR, Assign	Smith	JCP	18	(1950)	706
		3-15μ	G	Thermal decomp	Cottrell	TFS	47	(1951)	584
		725-875μ	L	Spec	Hey	JCS	-	(1952)	1974
		2-15μ	L	Spec	Pristera	APS	6	(1952)	29
		-	L	Band wth, I	Haszeldine	JCS	-	(1953)	2525
		-	-	Spec, Freq	Jander	JCS	-	(1954)	919
		-	-	Assign, Const, Freq	Jones	JCP	22	(1954)	1796
		-	-	Chem therm prop	McCullough	JACS	76	(1954)	4791
		-	-	Freq	Wilmshurst	JCP	23	(1955)	2463
		2-15μ	G	Spec	Pierson	AC	28	(1956)	1218
		-	G	Microwave	Tannen	JCP	25	(1956)	42
		2800-3000	L	Spec, gr. freq	Braunholtz	JCS	-	(1958)	2780
		-	-	Photolysis, IR	Brown	JCP	29	(1958)	883
		4500-2000	L	Spec	DeMaine	JMS	4	(1960)	407
		700-4000	L,Sol	Freq	DeMaine	CJC	38	(1960)	1921
$CH_3N^{18}O_2$	Nitromethane (isotopic)	884-3040	G,Sol	Spec	Halmann	JCS	-	(1960)	1246
CH_3NO_3	Methyl nitrate	1-7.5μ	L	Spec, Assign	Plyler	PR	34	(1929)	599
		1-30μ	G	Spec	Kettering	P	4	(1933)	39
		2-16μ	G,L	Spec, Assign	Brand	JACS	77	(1955)	319
		700-4000	-	Assign, Vib charact	Gatehouse	JCS	-	(1957)	4222
		700-4000	S	Ref compd	Gatehouse	JINC	8	(1958)	75
		700-1600	-	Abs, Freq, Assign	Ferraro	JMS	4	(1960)	99
CH_3NS	Thioformamide	400-5000	L,Sol	Spec, Assign, Struct	Davies	JCS	-	(1958)	955
CH_3NSSi	Silyl isothiocyanate	2000-4200	G	Freq	McDiarmid	JINC	2	(1956)	88
		-	G	Microwave	Jenkins	PRCS	-	(1960)	220
CH_3NSi	Cyanosilane	-	G	Microwave, Struct	Muller	JCP	32	(1960)	1577
		300-3500	G	Spec, Freq, Assign Struct	Linton	SA	10	(1958)	299
CH_3NSi	Silyl Isocyanide	2000-4200	G	Freq	McDiarmid	JINC	2	(1956)	88
CH_3N_3	Methylazide	2-20μ	G	Freq, Assign, Thermo	Eyster	JCP	8	(1940)	369
		-	-	Activ. energy, Freq	Fugassi	JPC	46	(1942)	630
		-	-	Spec, Assign	Lieber	AC	23	(1951)	1594
		-	-	Band freq	Sawicki	JACS	77	(1955)	957
		500-3000	-	Freq	Bellamy	JCS	-	(1956)	2753
		1900-2100	S	Freq	Fujita	JACS	78	(1956)	3295
		2-15μ	G	Spec	Pierson	AC	28	(1956)	1218
		400-5000	Sol	Spec, Assign	Mantica	GCI	90	(1960)	53

$CH_3N_3O_3$	Nitrourea	2-15μ	S	Spec, Charact freq	Lieber	AC	23	(1951)	1594
CH_3N_5	5-Aminotetrazole	2-15μ	S	Spec, Charact freq	Lieber	AC	23	(1951)	1594
		2-6.6μ	S	Band freq	Murphy	JOC	19	(1954)	1807
$CH_3N_5.HCl$	Guanylazide Hydrochloride	-	-	Azide gr. freq	Patinkin	JACS	77	(1955)	562
$CH_3N_5.HNO_3$	Guanylazide nitrate	-	S	Struct, Spec	Lieber	JACS	73	(1951)	1313
		2-15μ	S	Spec, Char freq	Lieber	AC	23	(1951)	1594
$CH_3N_5.HNO_3$	5-Aminotetrazole nitrate	-	-	Azide gr freq	Patinkin	JACS	77	(1955)	562
CH_3OB	Borine carbonyl	-	-	Comment on FC treatment	Bethke	JCP	27	(1957)	978
CH_3O_3S	Methane sulfonate	500-4000	S	Spec, Assign	Fujimori	BCSJ	32	(1959)	850
CH_4	Methane	-	-	Theor thermo	Urey	JACS	45	(1923)	1445
		-	-	IR	David	TFS	22	(1926)	273
		-	G	Freq	Henri	CR	4	(1927)	189
		-	-	Sp heat	Kunz	PR	29	(1927)	220
		1-10μ	G	Freq	Baily	TFS	25	(1929)	29
		.5-8μ	G	Spec	Baily	TFS	25	(1929)	32
		-	-	Freq	Bonino	TFS	25	(1929)	876
		-	G	IR, Spec	Dickinson	PR	34	(1929)	582
		-	-	C-Hovertones	Ellis	TFS	25	(1929)	888
		-	-	C-H linkage heat	Ellis	PR	33	(1929)	27
		-	-	Freq	Mecke	TFS	25	(1929)	936
		-	G	Overtone bands	Dennison	PR	36	(1930)	1451
		-	G	Sp heat, Struct	Ludolph	PR	37	(1931)	830
		1.4-2.6μ	G	Spec, Assign	Moorhead	PR	39	(1932)	83
		-	-	Assign, Spec	Villars	CR	11	(1932)	369
		-	G	Thermo	Kassel	JACS	55	(1933)	1351
		-	-	Struct	Mullikan	JCP	1	(1933)	492
		1-2μ	G	Spec, Freq	Norris	PR	43	(1933)	467
		-	-	Quant mech	Van Vleck	JCP	1	(1933)	219
		-	G	Plenatery atm	Adel	PR	46	(1934)	902
		-	-	Vib, Assign	Andrews	JCP	2	(1934)	634
		-	-	Freq	Mecke	TFS	30	(1934)	200
		-	-	Vib theo	Rosenthal	PR	46	(1934)	730
		-	-	Freq, Assign	Ginsburg	JCP	3	(1935)	668
		-	-	Freq	Johnston	PR	48	(1935)	868
		2.3-7.7μ	G	Spec	Nielsen	PR	48	(1935)	864

-	-	Quant mech	Penney	TFS	31	(1935)	754
-	-	Force const	Sutherland	PRS	148	(1935)	250
-	-	Quant mech	Wilson	JCP	3	(1935)	276
-	-	Quant mech	Wilson	JCP	3	(1935)	818
-	-	Thermo	Beeck	JCP	4	(1936)	680
1-1.2μ	G	Freq	Childs	PRS	153	(1936)	555
-	G	Press broadening	Herzberg	PR	50	(1936)	1186
-	-	Thermo	Kassel	JCP	4	(1936)	276
-	-	Thermo	Kassel	JCP	4	(1936)	435
-	-	Freq, Assign	MacWood	JCP	4	(1936)	402
-	-	Force const	Rosenthal	PR	49	(1936)	535
-	-	Freq	Stitt	JCP	4	(1936)	822
-	-	Freq, Assign	Voge	JCP	4	(1936)	137
-	-	Theo valence	Voge	JCP	4	(1936)	581
-	-	Thermo	Wilson	JCP	4	(1936)	526
900-3200	-	Freq, Assign	Benedeet	JCP	5	(1937)	1
-	-	Quant mech	Glockler	JCP	5	(1937)	813
-	G	IR	Watson	JPC	41	(1937)	61
1306-9047	G	Spec	Childs	PRS	169	(1938)	451
-	-	Quant mech	Jahn	PRS	168	(1938)	469
-	-	Pert theo	Jahn	PRS	171	(1939)	450
-	-	Freq	Dennison	RMP	12	(1940)	175
-	-	Quant mech	Murphy	JCP	8	(1940)	71
-	G	Thermo	Pitzer	CR	27	(1940)	39
1-15μ	G	Index of ref	Rollefson	PR	57	(1940)	710
-	-	Vib anal	Glockler	JCP	9	(1941)	224
-	-	Freq thermo	Thompson	TFS	37	(1941)	344
-	-	Quant mech	Wilson	JCP	9	(1941)	76
-	-	Quant mech	Wu	JCP	9	(1941)	1952
-	-	Band freq	Fugassi	JPC	46	(1942)	630
0.6-1μ	G	Spec	Gaydon	PRS	181	(1942)	197
-	-	Freq, Assign	Wu	JCP	10	(1942)	116
-	-	Freq	Barnes	IEC	15	(1943)	659
-	G	Spec	Bobrovnikoff	RMP	16	(1944)	271
-	G	Abs laws	Nielsen	RMP	16	(1944)	307
1-15μ	G	Spec	Nielsen	JOSA	34	(1944)	521
-	-	Vib theor	Shaffer	RMP	16	(1944)	245
3.3μ	G	Spec	Barnes	JAP	16	(1945)	77
-	-	Product rule	Edgell	JCP	13	(1945)	377
-	-	Ratio rule	Edgell	JCP	13	(1945)	539
-	-	Force const	Linnett	TFS	41	(1945)	223
-	G	Quant anal	Coggeshall	JAP	17	(1946)	450
-	-	Force const	Gordy	JCP	14	(1946)	305
-	-	Ext coeff	Lee	IEC	18	(1946)	659

0.8-2.5μ	G	Plan atm	Adel	PR	72	(1947)	538
				BAPS	22	(1947)	21
-	-	Press broad	Coggeshall	JCP	15	(1947)	65
-	-	Dipole mom from I	Thorndike	JCP	15	(1947)	868
-	-	Force const	Walsh	TFS	43	(1947)	60
-	-	I	Wilson	PR	71	(1947)	479
-	-	Quant mech	Decius	JCP	16	(1948)	214
-	-	Freq	Heath	TFS	44	(1948)	561
-	-	Quant mech	Kilpatrick	JCP	16	(1948)	749
1.7μ	G	Temp in atm	McMath	PR	74	(1948)	1203
1-2.5μ	G	Spec	McMath	PR	73	(1948)	623
7.2-8.2μ	G	Spec	Migeotte	PR	73	(1948)	519
3.3-7.7μ	G	in earth's atm	Migeotte	PR	74	(1948)	112
2-13μ	G	in earth's atm	Migeotte	JOSA	38	(1948)	1094
1.5-1.7μ	G	Assign, Spec	Nelson	JRNB	41	(1948)	615
-	-	Assign	Rasmussen	JCP	16	(1948)	712
2-14μ	G	Atm absorb	Adel	PR	75	(1949)	322
1533-1306	G	ν_2, ν_4 bands	Burgess	PR	76	(1949)	3022
2-15μ	L,S	Freq, Assign	Holden	JCP	17	(1949)	1949
-	-	Force fields	Linnett	TFS	45	(1949)	33
-	-	Freq	Linnett	TFS	45	(1949)	39
1-3.6μ	G	Spec	McMath	PR	76	(1949)	1533
-	-	Freq by quant mech	Simanouti	JCP	17	(1949)	245
-	-	Quant mech	Simanouti	JCP	17	(1949)	734
-	-	Force const	Simanouti	JCP	17	(1949)	848
-	-	Force const	Simpson	PRS	199	(1949)	169
-	-	Quant mech	Sun	JCP	17	(1949)	8402
-	-	Force const	Heath	TFS	46	(1950)	137
6.5μ	G	Coriolis perturbation	Jones	PR	79	(1950)	417
-	-	Force consts	Pace	JCP	18	(1950)	881
2943	G	CH_4 in solar spec	Benesh	PR	81	(1951)	145
3.3μ	G	Foreign gas press. influence	Welsh	JCP	19	(1951)	340
3-4μ	G	Spec	Boyd	PRS	213	(1952)	42
1.666μ	G	Absolute values	Goldberg	JOSA	42	(1952)	1
3.3μ	G	Spec	Goulden	JSI	29	(1952)	215
-	-	Force const	Hansen	JCP	20	(1952)	313
-	-	Force const	Moller	JCP	20	(1952)	203
2-16μ	G	Spec	Patterson	APS	6	(1952)	17
1.7-2.2μ	G	Spec	Plyler	JRNB	48	(1952)	221
-	G	Struct, IR	Stoicheff	JCP	20	(1952)	498
-	G	Emission	Talley	JOSA	42	(1952)	982

2-16 μ	G	Spec	Thompson	JPC	56	(1952)	243
7.4 μ	G	Absorp coeff	Welsh	JCP	20	(1952)	1646
3.25 μ	G	Press broad	Benesch	PR	91	(1953)	308
-	-	Sum rule	Bernstein	JCP	21	(1953)	88
-	-	Mol consts	Boyd	TFS	49	(1953)	1281
3000	Sol	Molecular rotation	Breneman	PR	91	(1953)	465
1400-1720	G	Spec	Burgess	JOSA	43	(1953)	1058
-	G	Cal. data for prism	Downie	JOSA	43	(1953)	941
1.66 μ	G	Spec	Goldberg	JOSA	43	(1953)	1033
-	-	Bond dist	Huggins	JACS	75	(1953)	4126
-	-	Freq, Product rule	Pitzer	JCP	21	(1953)	855
5927-6115	G	Table	Rank	JOSA	43	(1953)	213
-	G	PQR	Rank	JOSA	43	(1953)	214
-	G	Fine struct	Rank	JOSA	43	(1953)	707
-	G	High resolution	Wiggins	JOSA	43	(1953)	330
-	G	I	Vincent	CPR	239	(1954)	251
-	S	Study of unstable species	Whittle	JCP	22	(1954)	1943
-	-	Vib relay time theory	Cottrell	TFS	51	(1955)	1453
2-11.5 μ	G	Spec	Donovan	JCP	23	(1955)	1592
3-5 μ	-	Random Errors	Lord	AC	27	(1955)	327
-	G	Energy transfer	Sette	JCP	23	(1955)	787
2-9 μ	G	IR analyzer sensitization	Baker	AC	28	(1956)	1391
-	-	Mean polarizability	Buckingham	TFS	52	(1956)	1035
2-15 μ	G	Spec	Lacher	JPC	60	(1956)	492
-	-	Mol interaction	Meal	JCP	24	(1956)	1126
-	G	Spec	Neu	JPC	60	(1956)	320
2-15 μ	G	Spec	Pierson	AC	28	(1956)	1218
-	-	Force const	Woodward	TFS	52	(1956)	1958
-	-	ν_3, PQR band	Allen	JCP	26	(1957)	972
-	-	Force const	Baughan	TFS	53	(1957)	1046
-	-	Partition fn	Dainton	TFS	53	(1957)	1204
-	-	Force const	Pistorius	JCP	27	(1957)	965
3.3 μ	G	Spec	Plyler	JRNB	59	(1957)	317
900-3200	G	Spec, Freq	Wilmshurst	CJC	35	(1957)	226
-	-	Press effect	Cameo	JPR	19	(1958)	688
-	-	Pressure modulation	Gilfert	JOSA	48	(1958)	765
-	G	IR	Person	JCP	28	(1958)	319
-	Sol	Spec	Jacob	CPR	249	(1959)	523
-	-	Struct	Lascombe	BSCF	-	(1959)	1175
1600-3500	G	Grating spect	Plyler	JRNB	62	(1959)	7
-	-	Effect of nonabsorbing gases	Singleton	DA	19	(1959)	2372
2850-3150	G	I	Armstrong	SA	16	(1960)	840

		700-3500	L	Spec, Freq	Comeford	JMS	5	(1960)	474
		2470-3200	G	Spec	Plyler	JRNB	64	(1960)	201
$C^{13}H_4$	Methane (isotopic)	-	G	Spec	Boyd	PRS	213	(1952)	42
CH_4Cl_2Si	Dichloromethylsilane	2050-2250	-	Struct	Smith	SA	15	(1959)	412
CH_4F_2Si	Difluoromethylsilane	-	G	Microwave spec	Swalen	JCP	28	(1958)	671
		2050-2250	-	Struct	Smith	SA	15	(1959)	412
CH_4F_3OB	Boron trifluoride methanol complex	2200-7600	-	Struct	Babushkin	OS	5	(1956)	256
CH_4N_2O	Urea	-	-	Band freq	Buswell	JPC	44	(1940)	1126
		2.8-3.2μ	S	Spec	Kellner	PRS	177	(1940)	447
		-	-	Force const	Kellner	PRS	177	(1940)	456
		1200 -1750	-	Spec	Barnes	IEC	15	(1943)	659
		-	-	Force const	Linnett	TFS	41	(1945)	223
		-	-	Force const	Walsh	TFS	43	(1947)	158
		1600	S	Freq	Flett	JCS	-	(1948)	1441
		-	-	Vib anal	Keller	JCP	16	(1948)	1003
		-	S	Spec	Rappaport	PR	74	(1948)	115
		2.5-7.5μ	S	Aging and heat treatment	Shea	PR	79	(1950)	234
		2.9μ	S	Planarity	Waldron	JCP	18	(1950)	566
		1665	-	Bond length	Margoshes	JCP	22	(1954)	381
		-	S	Spec	Robinson	CEN	32	(1954)	4763
		1680	-	Freq	Krimm	JCP	23	(1955)	1371
		-	S	IR reflection spec	Robinson	AC	27	(1955)	162
		-	S	H bond	Pimentel	JCP	24	(1956)	639
		-	-	FC, Bond study	Anno	BCSJ	30	(1957)	638
		3μ	-	Spec	Badger	JCP	26	(1957)	255
		559-3444	-	Force const, H bond	Davies	TFS	53	(1957)	1563
		2-40μ	S	Assign	Stewart	JCP	26	(1957)	248
		-	-	NCA	Yamaguchi	NKZ	78	(1957)	1319
		-	S	Spec	Yamaguchi	NKZ	78	(1957)	1467
		400-2000	S	Assign	Yamaguchi	SA	110	(1958)	170
		700-3800	-	Assign, Struct	Spinner	SA	15	(1959)	95
		2.5-15μ	-	Assign, Struct	Carrington	SA	16	(1960)	1279
		2-9μ	Sol	Spec, Freq	Jencks	ABB	88	(1960)	193
$CH_4N_2O.HCl$	Urea hydrochloride	700-3800	Sol	Assign, Struct	Spinner	SA	15	(1959)	95
CH N O.HNO	Urea nitrate	3μ	S	Assign	Davies	TFS	53	(1957)	1563

$CH_4N_2O_2$	O-Carbonylhydroxylamine	2-9 μ	Sol	Spec, Freq.	Jencks	ABB	88 (1960)	193
$CH_4N_2O_2$	Hydroxyurea (U_{72} m.p.)	4000-450	Sol,L	Spec, Freq, Mol struct	Davies	SA	15 (1959)	487
$CH_4N_2O_2$	Hydroxyurea (U_{140} m.p.)	4000-450	L	Spec, Freq, Mol struct	Davies	SA	15 (1959)	487
$CH_4N_2O_2$	Hydroxyurea	600-3600	S	Struct, Iso.	Kofod	ACS	11 (1957)	1276
CH_4N_2S	Thiourea	-	-	Band freq	Buswell	JPC	44 (1940)	1126
		-	S	Reaction ratio	Stewart	AC	27 (1955)	318
		3 μ	-	Spec	Badger	JCP	26 (1957)	255
		-	-	Spec, Struct	Epp	AC	29 (1957)	1283
		600-1900	-	Spec	Jones	JCS	- (1957)	614
		2-40 μ	S	Vib assign	Stewart	JCP	26 (1957)	248
		2-15 μ	S	Spec, Assign, NCA	Yamaguchi	JACS	80 (1958)	527
		700-3800	-	Assign, Struct	Spinner	SA	15 (1959)	95
CH_4N_4O	Nitrosoguanidine	2-15 μ	S	Spec, Freq	Lieber	AC	23 (1951)	1594
		1-15 μ	S	Table, Assign, Spec	Kumler	JACS	76 (1954)	814
$CH_4N_4O_2$	Nitroguanidine	2-15 μ	S	Spec, Freq	Lieber	AC	23 (1951)	1594
		-	-	Struct	McKay	CR	51 (1952)	301
		1-15 μ	S	Table, Assign, Spec	Kumler	JACS	76 (1954)	814
$CH_4N_4O_4$	Methylenedinitramine	698-3400	S	Table, I	Tobin	JACS	76 (1954)	3249
CH_4N_6	Tetrazolylhydrazine	2-15 μ	S	Spec, Freq	Lieber	AC	23 (1951)	1594
CH_4O	Methanol	52 μ	L	Total abs	Hollangel	PR	11 (1918)	505
		0.8-2.0 μ	L	Mag rot	Ingersoll	JOSA	6 (1922)	663
		-	L	Ref index	Tear	PR	21 (1923)	611
		-	-	Freq, Abs coeff	Bonino	TFS	25 (1929)	876
		0.8-2.5 μ	L	Spec	Sappenfield	PR	33 (1929)	37
		1 μ	L	Press effect	Collins	PR	36 (1930)	305
		-	-	Vib	Kettering	PR	36 (1930)	531
		-	-	Vib theory, Heat cap	Lewis	PR	36 (1930)	568
		1-8 μ	L	Spec, Assign	Plyler	PR	35 (1930)	605
		-	G	Assign	Adel	JCP	2 (1934)	627
		-	-	Freq	Mecke	TFS	30 (1934)	200
		3-5.4 μ	L	Spec	Plyler	JCP	2 (1934)	565
		6900-7300	Sol	Spec	Wulf	JACS	57 (1935)	1464
		-	G	Spec, Assign	Badger	JCP	4 (1936)	469
		-	G	Spec	Badger	JCP	4 (1936)	711

52-152μ	L,Sol	Trans, Dispers	Cartwright	PRS	154	(1936)	138
-	-	H bond	Gordy	JCP	4	(1936)	749
2.5-8.5μ	L	H bond	Gordy	PR	50	(1936)	1151
0.949μ	G	Spec	Herzberg	PR	50	(1936)	390
-	-	Thermo	Kassel	JCP	4	(1936)	493
1-2.5μ	G,L	Solvent effect	Kinsey	PR	49	(1936)	105
-	-	Spec	Badger	JCP	5	(1937)	369
-	L,Sol	Spec, H bond	Badger	JCP	5	(1937)	839
4-8μ	-	Spec	Barr	PR	51	(1937)	685
-	-	FC, IR	Bonner	JCP	5	(1937)	293
2800-3800	L,Sol	Spec, H bond	Buswell	JCP	5	(1937)	501
-	-	Freq, Assign	Edsoll	JCP	5	(1937)	225
-	-	Ext coeff	Errera	TFS	33	(1937)	120
2.55-3.15μ	-	Solvent effect	Gordy	PR	51	(1937)	564
-	-	Freq, Assign	Halford	JCP	5	(1937)	927
0.9-4μ	G,L,Sol	Spec, H bond	Kursey	JCP	5	(1937)	399
2.5-6μ	L	Spec, H bond	Williams	JACS	59	(1937)	817
2.8-6.2μ	L,Sol	Spec	Williams	JPC	41	(1937)	645
2.5-26μ	G	Spec, Assign, Quant mech	Borden	JCP	6	(1938)	553
2.5-3.7μ	L,Sol	Spec, H bond	Gordy	JACS	60	(1938)	605
-	-	Thermo	Halford	JCP	6	(1938)	571
7000	-	Abs band	Wulf	JCP	6	(1938)	702
-	-	H bond, Freq shift	Badger	JCP	8	(1940)	288
-	-	Thermo	Crawford	JCP	8	(1940)	744
-	-	Hindered rot. theo.	Koehler	PR	57	(1940)	1006
6-16μ	L	Freq	McMillan	PR	57	(1940)	941
-	-	Freq	Noether	JCP	10	(1942)	693
2-5μ	L	Spec	Williams	JACS	64	(1942)	2684
1050-1800	-	Freq, Spec	Barnes	IEC	15	(1943)	659
-	-	Ratio rule	Noether	JCP	11	(1943)	97
-	-	Int rot	Aston	JCP	12	(1944)	336
-	G	Spec	Barnes	JAP	16	(1945)	77
-	-	FC	Linnett	TFS	41	(1945)	223
3-20μ	L	Spec	Torkington	TFS	41	(1945)	184
-	-	Pot barrier	French	JCP	14	(1946)	389
-	-	FC	Gordy	JCP	14	(1946)	305
3-15μ	L,G	Assign	Courtoy	ASS	61	(1947)	139
-	-	Quant mech, Thermo	Halford	JCP	15	(1947)	364
-	-	Thermo	Halford	JCP	15	(1947)	645
-	-	Use of deuterium	Halverson	RMP	19	(1947)	87
1.25μ	-	Microwave	Hershberger	PR	71	(1947)	554
-	-	FC	Ramsay	PRS	190	(1947)	562

-	-	Anal of oxygenated compds.	Anderson	AC	20	(1948)	998
3-15 μ	Sol	Association	Davies	JCP	16	(1948)	267
-	-	FC	Richards	TFS	44	(1948)	40
-	-	Anal	Soier	AC	20	(1948)	812
3 μ	Sol	OH bands	Baker	JCS	-	(1949)	24
-	-	Elec theory	Lassettre	JCP	17	(1949)	317
-	-	Thermo	Blade	JCP	18	(1950)	630
-	-	H bond	Coggeshall	JCP	18	(1950)	978
-	-	Hindered rot	Halford	JCP	18	(1950)	361
3-15 μ	G,S	Low temp	Walsh	JCP	18	(1950)	552
720-750	L	Freq	Wiberly	AC	22	(1950)	841
-	S,L	Assign	Browne	AC	23	(1951)	1045
-	-	Rot level theory	Burkhard	PR	84	(1951)	408
-	Sol	Spec, H bond	Jones	JACS	73	(1951)	3132
2800-3000	Sol	Spec	Poyefsky	AC	23	(1951)	1611
-	Sol	Thermo	Prigogine	TFS	47	(1951)	1137
2-15 μ	L,Sol	Spec	Smith	JRNB	46	(1951)	145
-	-	Thermo, H bond	Weltner	JACS	73	(1951)	2606
3 μ	Sol	Freq, H bond	Kuhn	JACS	74	(1952)	2492
7000-7300	-	Spec	Lauer	APS	6	(1952)	29
15-25 μ	L	Wavelength calibration, Solvent	Marrison	JSI	29	(1952)	233
2-15 μ	G,L	Spec, Assign	Plyler	JRNB	48	(1952)	281
980-1090	G,L	Spec	Ramsay	JACS	74	(1952)	72
350-800	Sol	H bond	Stuart	JCP	20	(1952)	1977
-	Sol	Spec, Assign	Tsuboi	BCSJ	25	(1952)	60
2-16 μ	L	Spec	Anderson	JOSA	43	(1953)	221
-	-	Solvent chart	Baker	AC	25	(1953)	1457
-	-	Microwave	Ivash	JCP	21	(1953)	1804
121-190	G	Freq	O'Loane	JCP	21	(1953)	669
665-5000	L	Freq, Spec	Zeiss	JACS	75	(1953)	897
20-43 μ	G	Spec	Hadni	CPR	238	(1954)	573
10537	Sol	Freq shift	Josien	JCP	22	(1954)	1169
-	-	IR	Kaye	AC	26	(1954)	428
0.9-2.9 μ	L,Sol	Spec, Assign	Kaye	SA	6	(1954)	257
-	G,Sol	Mechanism of exchange reaction rate	Kwart	JACS	76	(1954)	5998
-	-	Ident	Crecelius	CEN	33	(1955)	4046
2- 11.5 μ	G	Spec	Donovan	JCP	23	(1955)	1592
-	G	Assign, Thermo	Ivash	JCP	23	(1955)	1814
-	-	Freq	Sheppard	JCP	23	(1955)	582
-	-	Freq	Sheppard	TFS	51	(1955)	1465
-	-	J=0→1 transition study	Swan	PR	99	(1955)	667

		500-3000	-	Relation between fundamental freqs.	Bellamy	JCS	-	(1956)	2753
		-	-	Freq	Finch	JCP	24	(1956)	908
		.9-3μ	Sol	Spec	Holman	AC	28	(1956)	1533
		1034	-	Freq	Kimura	JCP	24	(1956)	622
		-	-	Thermo	Li	JPC	60	(1956)	466
		3630	Sol	I	Liddle	JCP	25	(1956)	173
		-	G	Spec	Neu	JPC	60	(1956)	320
		2-15μ	G	Spec	Pierson	AC	28	(1956)	1218
		350-4000	L, Sol	Spec	Stuart	JCP	24	(1956)	559
		3μ	Sol	Freq, I	Tsubomura	JCP	24	(1956)	927
		-	-	FC	Baughan	TFS	53	(1957)	1046
		1400-1600	Sol	Mol asso	Ens	CJC	35	(1957)	170
		2-15μ	G	Spec	Friedel	AC	29	(1957)	1362
		1000-1500	G, L	Assign, NCA	Tanaka	SA	9	(1957)	265
		2700-3700	-	Struct	Thiel	JCP	27	(1957)	95
		-	-	H bond	Drinkard	JPC	62	(1958)	1494
		3μ	Sol	H bond	Flett	SA	10	(1958)	21
		3200-3800	G	Mol asso	Inskeep	JCP	28	(1958)	1033
		3μ	Sol, L	H bond	Liddel	SA	10	(1958)	70
		3μ	Sol	I	Moccia	PRS	243	(1958)	154
		-	Sol	Solvent effect	Sato	NKZ	79	(1958)	358
		6000-8000	Sol	H bond	Bell	JCP	31	(1959)	300
		50-860	G	Spec	Burkhard	JMS	3	(1959)	299
		9.0-10.4μ	-	Analysis	Cirillo	AC	31	(1959)	959
		3570-3700	Sol	I, Freq	Flynn	AJC	12	(1959)	575
		-	-	Assign	Michinori	BCSJ	32	(1959)	950
		700-4000	Sol	Freq	DeMaine	CJC	38	(1960)	1921
$C^{12}H_4O$	Methanol (isotopic)	-	G	IR	Bernstein	JCP	21	(1953)	1903
		-	G	Microwave	Swalen	JCP	23	(1955)	1739
		-	-	Microwave	Venkateswarlu	JCP	23	(1955)	1195
		-	-	Microwave	Venkateswarlu	JCP	23	(1955)	1200
$C^{12}H_4O^{18}$	Methanol (isotopic)	-	-	Microwave	Ivash	JCP	21	(1953)	1804
$C^{13}H_4O$	Methanol (isotopic)	-	G	IR	Bernstein	JCP	21	(1953)	1903
		-	G	Microwave	Swalen	JCP	23	(1955)	1739
$C^{13}H_4O^{16}$	Methanol (isotopic)	-	-	Microwave	Ivash	JCP	21	(1953)	1804
		-	-	Microwave	Venkateswarlu	JCP	23	(1955)	1195
		-	-	Microwave	Venkateswarlu	JCP	23	(1955)	1200

$C^{14}H_4O$	Methanol (isotopic)	-	G	Decomp. study	Skraba	JCP	21	(1953)	1296
CH_4O_2	Methylhydroperoxide	-	L	gr freq	Gray	JCS	-	(1952)	3150
		5-15μ	Sol	Spec	Minkoff	PRS	224	(1954)	176
CH_4O_2Se	Methylseleninic acid	-	S,Sol	Spec, H bond	Paetzold	ZAUA	305	(1960)	88
$CH_4O_2Se.HCl$	Methylseneninic acid hydrochloride	-	S,G,Sol	Spec, Assign	Paetzold	ZAUA	305	(1960)	98
CH_4O_3	Hydroxymethyl hydrogen peroxide	9.0-9.7μ	-	Ident	Everett	TFS	52	(1956)	986
CH_4O_3S	Methanesulfonic acid	-	-	gr freq	Haszeldine	JCS	-	(1954)	4228
		7-10μ	-	Liq	Haszeldine	JCS	-	(1955)	2910
		-	L	Spec, FC	Garding	RTC	77	(1958)	374
CH_4O_3Se	Methylselenous acid	-	S	Spec, Freq	Simon	ZAUA	303	(1960)	72
CH_4S	Methylmercaptan	-	G	Assign	Adel	JCP	2	(1934)	627
		7000-12000	G	Spec, Freq, Assign	Thompson	JCP	7	(1939)	441
		1-16μ	G	Spec, Assign	Thompson	TFS	36	(1940)	812
		-	-	Freq	Noether	JCP	10	(1942)	693
		-	G	Thermo	Russel	JACS	64	(1942)	165
		-	-	Freq	Barnes	IEC	15	(1943)	659
		-	-	Calc of barriers	Aston	JCP	12	(1944)	336
		-	-	FC	Linnett	TFS	41	(1945)	223
		-	-	Pot barrier	French	JCP	14	(1946)	389
		500-1700	G	Assign, Spec	Trotter	JCS	-	(1946)	481
		900-1200	G	Struct	Trotter	JCS	-	(1946)	481
		-	-	Thermo	Binder	JCP	17	(1949)	499
		-	-	IR, Freq, FC	Sheppard	TFS	46	(1950)	429
		3-11μ	G	Spec	Thompson	TFS	46	(1950)	22
		-	-	Freq, Thermo	Scott	JACS	73	(1951)	1707
		-	-	Microwave, I	Kilb	JCP	23	(1955)	1736
		1325	-	Freq	Sheppard	TFS	51	(1955)	1465
		-	G	Microwave, I	Solimene	JCP	23	(1955)	124
		500-3000	-	Theor. discussion	Bellamy	JCS	-	(1956)	2753
		2-15μ	G	Spec	Pierson	AC	28	(1956)	1218
		200-1500	-	Freq, Assign, Struct	Scott	JACS	80	(1958)	3554
		-	G	Microwave spec	Kojima	JPSJ	15	(1960)	1284
CH_4S_2	Methanedithiol	2.5-15μ	L	Spec	Cairus	JACS	74	(1952)	3982

CH_4Se	Methyl hydroselenide	-	-	Pot barrier	French	JCP	14	(1946)	389
$CH_5D_3B_2$	Methyldiborane-d_3	2-15 μ	G	Spec, Assign, Freq	Lehmann	JCP	32	(1960)	1088
CH_5BrSi	Methylsilyl bromide	400-4000	G	Spec, Assign	Ebsworth	JCS	-	(1958)	1453
CH_5ClSi	Methylsilyl chloride	400-4000	G	Spec, Assign	Ebsworth	JCS	-	(1958)	1453
CH_5FSi	Methylsilyl fluoride	-	G	Spec, Struct, Mol const	Pierce	JCP	29	(1958)	383
		400-4000	G	Spec, Assign	Ebsworth	JCS	-	(1958)	1453
CH_5ISi	Methylsilyl iodide	400-4000	G	Spec, Assign	Ebsworth	JCS	-	(1958)	1453
CH_5N	Methylamine	6400-6840	Sol	H bond	Liddel	JACS	55	(1933)	3574
		-	-	Freq	Mecke	TFS	30	(1934)	200
		-	L	Thermo	Aston	JACS	59	(1937)	1743
		-	-	Freq, Assign	Edsall	JCP	5	(1937)	225
		10000-10100	G	Spec, Quant mech	Thompson	JCP	6	(1938)	775
		1-26.5 μ	G	Spec, Assign, Thermo	Bailey	PRS	173	(1939)	339
		-	G	Moment of inertia	Bonner	PR	55	(1939)	1113
		2-18 μ	G	Spec, Freq, Assign	Cleaves	JCP	7	(1939)	563
		-	G	Spec, Freq, Assign	Thompson	JCP	7	(1939)	448
		-	-	Freq, Assign, Thermo	Aston	JCP	8	(1940)	743
		-	G	Freq, Assign, Spec	Cleaves	JCP	8	(1940)	784
		-	G	Spec, Freq, Assign	Owens	JCP	8	(1940)	229
		-	-	Freq	Barnes	IEC	15	(1943)	659
		-	-	Inter rot	Aston	JCP	12	(1944)	336
		-	-	FC	Linnett	TFS	41	(1945)	223
		-	-	Pot barrier	French	JCP	14	(1946)	389
		-	-	FC, Bond dist	Gordy	JCP	14	(1946)	305
		-	-	Microwave	Hershberger	PR	71	(1947)	554
		-	-	FC	Richards	TFS	44	(1948)	40
		-	-	Theory	Lassettre	JCP	17	(1949)	317
		-	G	Microwave	Lide	JCP	20	(1952)	1812
		-	-	Bond dist	Huggins	JACS	75	(1953)	4126
		-	G	Spec	Lide	JCP	22	(1954)	1613
		-	-	Microwave	Shimoda	JCP	22	(1954)	1456
		-	-	Thermo	Aston	JACS	77	(1955)	375
		-	-	Rot barrier	Aston	JCP	23	(1955)	211
		-	-	Microwave	Kivelson	PR	99	(1955)	667
		-	G	Microwave	Nishikawa	JCP	23	(1955)	1735
		-	-	Freq. corr.	Sheppard	JCP	23	(1955)	582
		-	-	Freq	Sheppard	TFS	51	(1955)	1465

		-	G	Microwave	Shimoda	PR	98	(1955)	1160
		4500-400	G	Freq, Assign	Barcelo	SA	8	(1956)	27
		500-3000	-	Theory	Bellamy	JCS	-	(1956)	2753
		2-15μ	G	Spec	Pierson	AC	28	(1956)	1218
		-	S	H bond	Pimentel	JCP	24	(1956)	639
		-	-	FC, Dissoc energy	Baughan	TFS	53	(1957)	1046
		400-3500	-	Vib, Assign, Spec, Struct	Gray	JCP	26	(1957)	690
		3000-4000	Sol,G	I, ν_{NH_2}	Orville	JCS	-	(1958)	1047
		2-15μ	G	NCA, Assign	Stewart	JCP	30	(1959)	1259
$CH_5N.HCl$	Methylamine hydrochloride	2-8μ	S	Spec	Nakanishi	BCSJ	30	(1957)	403
CH_5NO	α-Methylhydroxylamine	-	G	Spec, Anal	Thompson	JCP	7	(1939)	441
CH_5NO	N-Methylhydroxylamine	420-4000	G,L,Sol	Spec, Assign	Davies	JCS	-	(1959)	3971
CH_5NO	O-Methylhydroxylamine	420-4000	G,L,Sol	Spec, Assign, Freq	Davies	JCS	-	(1959)	3971
CH_5NO_2S	Methanesulfonamide	-	S,Sol	gr. freq	Baxter	JCS	-	(1955)	669
CH_5N_2O	Urea Ion	560-3500	-	FC, H bond	Davies	TFS	53	(1957)	1563
CH_5N_3	Guanidine	800-3500	S	Spec	Goto	BCSJ	30	(1957)	723
		400-4000	S	FC, Freq, Assign	Jones	TFS	55	(1959)	524
$CH_5N_3.HNO_3$	Guanidine nitrate	2.2-4.2μ	S	Spec	Buswell	JPC	46	(1942)	575
		2-15μ	S	Spec, Freq	Lieber	AC	23	(1951)	1594
$CH_5N_5O_2$	1-Amino-3-Nitroguanidine	2-15μ	S	Spec	Lieber	AC	23	(1951)	1594
		1-15μ	S	Spec	Kumler	JACS	76	(1954)	814
CH_5O_2B	Monomethylboric acid	250-4000	-	Spec, Assign	Goubeau	ZPC	20	(1959)	15
CH_5P	Methylphosphine	300-4000	G	Assign, Spec	Linton	SA	15	(1959)	146
CH_6ClN	Methylammonium chloride	3000-6000	S	Spec, Assign, FC	Waldron	JCP	21	(1953)	734
CH_6ClNO	Methoxyammonium chloride	400-4000	-	Spec, FC	Frasco	DA	19	(1958)	1219
CH_6Cl_4NB	Methylammonium tetra-chloroborate	600-3500	L	Spec	Kynaston	JCS	-	(1960)	1772

CH_6F_4NB	Methylammonium tetra-fluoroborate	600-3500	L	Spec	Kynaston	JCS	- (1960) 1772
		-	-	H bond, Freq	Nuttall	JCS	- (1960) 4965
CH_6N	Methylammonium ion	-	-	Freq, Assign	Edsall	JCP	5 (1937) 225
CH_6N_2	Methylhydrazine	-	-	Thermo	Janz	JCP	17 (1949) 1352
		-	-	Freq, Assign, Thermo	Aston	JACS	73 (1951) 1939
		650-3000	L,G	IR, Freq, Assign	Axford	JCP	19 (1951) 704
		2-15 μ	G	Spec	Pierson	AC	28 (1956) 1218
		1.9 μ	Sol	Spec	Cordes	AC	29 (1957) 485
$CH_6N_2O_3$	Urea, hydrogen peroxide	-	S	Spec, Struct	Ferroni	GCI	89 (1959) 979
CH_6N_3	Guanidinium ion	-	-	NCA, FC	Kellner	PRS	177 (1941) 456
		-	-	FC	Linnett	TFS	41 (1945) 223
		-	-	FC	Gordy	JCP	14 (1946) 305
		-	-	Vib anal	Halverson	RMP	19 (1947) 87
$CH_6N_4 \cdot HNO_3$	Aminoguanidine nitrate	2-15 μ	S	Spec	Lieber	AC	23 (1951) 1594
CH_6Si	Methylsilane	2-16 μ	G	Spec	Kaye	JOC	18 (1953) 1750
		-	-	gr. freq	Tannenbaum	JACS	75 (1953) 3753
		-	-	Struct	Kivelson	JCP	22 (1954) 1733
		2-16 μ	G	Ident	White	JACS	76 (1954) 3897
		-	-	Int. rot. theory	Kivelson	JCP	23 (1955) 2230
		-	-	Pot. barrier	Bak	JCP	24 (1956) 918
		-	G	Spec, Config, Mol const	Kilb	JCP	27 (1957) 108
CH_7NO_3S	Ammonium methanesulphonate	250-4000	-	Spec, Struct, H bonding	Waddington	JCS	- (1958) 4340
$CH_7N_3O_2$	Ammonium methylnitramide	670-4000	S	Assign, Struct	Jonathan	JMS	5 (1960) 101
$CH_7N_5 \cdot HNO_3$	Diaminoguanidine nitrate	2-15 μ	S	Spec, Freq	Lieber	AC	23 (1951) 1594
$CH_8N_6 \cdot HNO_3$	Triaminoguanidine	2-15 μ	S	Spec	Lieber	AC	23 (1951) 1594
CH_8B_2	Monomethyldiborane	2-15 μ	G	Spec, Assign, Freq	Shapiro	JCP	29 (1958) 237
		1500-2800	-	Spec, B-H freq	Lehmann	JCP	32 (1960) 1088
$CH_{11}B_5$	Methylpentaborane	400-3000	Sol	Spec, Struct	Figgis	SA	15 (1959) 331
$CDBrCl_2$	Bromodichloromethane-d_1	700-4000	L	IR	Polo	PR	81 (1951) 300
		-	-	Anal	Sherman	JACS	73 (1951) 1376

		400-4000	L,G	Spec, Assign, FC, Thermo	Polo	JCP	23 (1955)	833
$CDBrF_2$	Bromodifluoromethane-d_1	-	-	Freq, Thermo	Palm	JCP	23 (1955)	726
$CDBr_2Cl$	Chlorodibromomethane-d_1	-	-	Anal	Sherman	JACS	73 (1951)	1376
		400-4300	L,G	IR, Assign, Thermo	Pontarelli	JCP	20 (1952)	1949
$CDBr_3$	Bromoform-d_1	-	-	Anal	Halverson	RMP	19 (1947)	87
		-	-	Quant mech	Decius	JCP	16 (1948)	214
		2-25 μ	G,L	Spec, Assign	Ferigle	JCP	18 (1950)	1073
		153-2248	L	Assign	Meister	JCP	18 (1950)	346
		-	-	Pot consts, Depol fact	Krupp	JCP	24 (1956)	355
$CDCl_3$	Chloroform-d_1	-	-	Assign	Voge	JCP	4 (1936)	137
		-	-	Ratio rule	Edgell	JCP	13 (1945)	539
		-	-	Mol anal	Halverson	RMP	19 (1947)	87
		-	-	Quant mech	Decius	JCP	16 (1948)	214
		-	-	Quant mech	Simanouti	JCP	17 (1949)	245
		-	-	Mol anal, Quant mech	Simanouti	JCP	17 (1949)	734
		400-10000	G,L	IR, Assign	Madigan	JCP	18 (1950)	1081
		3-14.5 μ	G,L	Spec, Anal	Earing	JACS	73 (1951)	769
		-	G,L,Sol	IR, Freq, Assign	Bernstein	JCP	20 (1952)	1979
		-	Sol	Band freq	Barrow	JACS	76 (1954)	5247
		-	Sol	Freq	Bernstein	JCP	23 (1955)	2201
		-	Sol	H bond	Huggins	JCP	23 (1955)	896
		-	Sol	Solvent	Lord	AC	27 (1955)	321
		-	Sol	Spec	Lord	JACS	77 (1955)	1365
		-	-	NCA	Weber	JCP	23 (1956)	2207
$C^{12}DCl_3{}^{35}$	Chloroform-d_1 (isotopic)	-	G	Microwave	Ghosh	JCP	20 (1952)	605
CDFO	Formyl fluoride-d_1	500-5000	G	Mol consts, Assign	Stratton	JMS	4 (1960)	373
CDF_3	Fluoroform-d_1	-	-	FC, Thermo	Decker	JCP	19 (1951)	784
		-	-	Freq, Assign	McGee	JCP	21 (1953)	242
		400-3500	G	Spec, Freq, Thermo	Polo	JCP	21 (1953)	1129
		300-3000	G	Freq	Edgell	JCP	22 (1954)	1808
		-	-	NCA	Biarge	ARS	53 (1957)	235
$C^{12}DF_3$	Fluoroform-d_1 (isotopic)	-	G	Microwave	Ghosh	JCP	20 (1952)	605
CD_2Br_2	Dibromomethane-d_2	-	-	Mol anal	Halverson	RMP	19 (1947)	87
		-	-	Quant mech	Decius	JCP	16 (1948)	214
		-	-	FC, Thermo	Dowling	JCP	22 (1954)	1042

CD_2Cl_2	Dichloromethane-d_2	-	-	Quant mech	Decius	JCP	16	(1948)	214
		-	-	Quant mech	Simanouti	JCP	17	(1949)	245
$CD_2Cl_2^{35}$	Dichloromethane-d_2 (isotopic)	-	-	Microwave	Myers	JCP	20	(1952)	1420
$CD_2Cl^{35}Cl^{37}$	Dichloromethane-d_2 (isotopic)	-	-	Microwave	Myers	JCP	20	(1952)	1420
CD_2F_2	Difluoromethane-d_2	-	-	FC	Meister	PR	100	(1955)	1267A
CD_2N_2	Diazomethane-d_2	400-4500	G	Spec, Assign	Crawford	JCP	19	(1951)	406
		19000-90000 Mc/sec	G	Microwave, Mol consts	Cox	N	181	(1958)	1000
CD_2O	Formaldehyde-d_2	2-13μ	G	Spec, Anal	Ebers	JCP	6	(1938)	311
		10μ	-	Interact theory	Nielsen	PR	55	(1939)	289
		-	-	Vib, Product rule	Redlich	JCP	7	(1939)	856
		-	-	Freq, Thermo	Thompson	TFS	37	(1941)	251
		-	-	Mol anal	Halverson	RMP	19	(1947)	87
		-	-	Mol anal	Linnett	TFS	45	(1949)	832
CD_2O_2	Formic acid-d_2	-	-	H bond	Bonner	JCP	6	(1938)	531
		1-15μ	G	Spec	Herman	JCP	8	(1940)	447
		-	-	Struct	Smith	PR	58	(1940)	208A
		800-4000	G	Spec, Assign	Williams	JCP	15	(1947)	232
		800-4000	G	Spec, Assign	Williams	JCP	15	(1947)	243
		500-2000	G	Spec, Freq, Assign	Millikan	JCP	27	(1957)	1305
		635-3800	S	Spec, Assign, Band shift	Millikan	JACS	80	(1958)	3515
		400-800	G,S	NCA, Spec	Miyazawa	JCP	30	(1959)	1076
		120000-160000 Mc/sec	-	Mol const	Mirri	NC	18	(1960)	849
CD_3Br	Methyl bromide-d_3	2.8-18μ	G	Spec, Assign	Noether	JCP	10	(1942)	664
		-	-	Ratio rule	Noether	JCP	11	(1943)	97
		-	-	Ratio rule	Edgell	JCP	13	(1945)	306
		-	-	Freq, FC	DeHemptinne	TFS	42	(1946)	5
		-	-	Mol anal	Halverson	RMP	19	(1947)	87
		-	-	Quant mech	Decius	JCP	16	(1948)	214
		577-2294	-	Freq	Barrow	PRS	213	(1952)	27
		-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
		-	G	Spec, Anal	Wiggins	JCP	21	(1953)	1368

		400-4000	G	Spec, Anal, Assign, FC	Weissman	JCP	23 (1955)	544
		500-2300	G	Freq, Assign, I	Dickson	JCP	27 (1957)	445
		550-1070	S	Assign, Freq	Dows	JCP	33 (1960)	1743
CD_3Br^{79}	Methyl bromide-d_3 (isotopic)	-	G	Microwave	Simmons	JCP	20 (1952)	122
CD_3Br^{81}	Methyl bromide-d_3 (isotopic)	-	G	Microwave	Simmons	JCP	20 (1952)	122
CD_3Cl	Methyl chloride-d_3	-	-	Freq, Assign	Voge	JCP	4 (1936)	137
		2.8-18 μ	G	Spec, Assign	Noether	JCP	10 (1942)	664
		-	-	Ratio rule	Noether	JCP	11 (1943)	97
		4.2-15 μ	G	Spec, FC	Nielsen	RMP	16 (1944)	241
		-	-	Ratio rule	Edgell	JCP	13 (1945)	306
		-	-	Ratio rule	Edgell	JCP	13 (1945)	539
		-	G	Rot spacing	Nielsen	PR	68 (1945)	99
		-	-	Freq, FC	DeHemptinne	TFS	42 (1946)	5
		-	-	Mol anal	Halverson	RMP	19 (1947)	87
		-	-	Quant mech	Decius	JCP	16 (1948)	214
		-	-	Freq, Quant mech	Simanouti	JCP	17 (1949)	245
		-	-	Mol anal, Quant mech	Simanouti	JCP	17 (1949)	734
		695-2286	-	Freq	Barrow	PRS	213 (1952)	27
		-	-	Distortion	Chang	JCP	21 (1953)	1293
		-	-	Mol interact	Meal	JCP	24 (1956)	1126
		700-2200	G	Freq, Assign, I	Dickson	JCP	27 (1957)	445
		-	L	Spec	Asahina	NKZ	81 (1960)	1374
		650-1600	S	Assign, Freq	Dows	JCP	33 (1960)	1743
$C^{12}D_3Cl^{35}$	Methyl chloride-d_3 (isotopic)	-	G	Microwave	Simmons	JCP	20 (1952)	122
$C^{12}D_3Cl^{37}$	Methyl chloride-d_3 (isotopic)	-	G	Microwave	Simmons	JCP	20 (1952)	122
CD_3F	Methyl fluoride-d_3	-	-	Ratio rule	Noether	JCP	11 (1943)	97
		-	G	Microwave	Simmons	JCP	20 (1952)	122
		-	G	IR, Microwave, Mol anal	Andersen	JCP	24 (1956)	989
		100-600	G	Spec, Mol const	Palik	JCP	26 (1957)	1401
CD_3I	Methyl iodide-d_3	-	-	Ratio rule	Noether	JCP	11 (1943)	97
		-	-	Freq, FC	DeHemptinne	TFS	42 (1946)	5
		-	L,G	IR, Assign, Thermo	Fenlon	JCP	19 (1951)	1561
		523-3075	-	Freq	Barrow	PRS	213 (1952)	27

		-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
		500-2300	G	Freq, Assign, I	Dickson	JCP	27	(1957)	445
$C^{12}D_3I^{127}$	Methyl iodide-d_3 (isotopic)	-	G	Microwave	Simmons	JCP	20	(1952)	122
CD_3NO	Formamide-d_3	300-3600	L	Spec, Assign, NCA	Suzuki	BCSJ	33	(1960)	1359
CD_3NO_2	Nitromethane-d_3	-	-	Ratio rule	Noether	JCP	11	(1943)	97
		3-25μ	G	Spec, Assign	Wilson	JCP	11	(1943)	361
		-	-	Mol anal	Halverson	RMP	19	(1947)	87
		-	-	Freq, Assign	Jones	JCP	22	(1954)	1796
		-	G	Microwave	Tannenbaum	JCP	25	(1956)	42
		600-3000	G	IR	Brown	JCP	29	(1958)	883
CD_3NSi	Silyl cyanide-d_3	300-3500	G	Spec, Assign, Freq, Mol anal	Linton	SA	10	(1958)	299
		-	G	Spec, Struct	Muller	JCP	32	(1960)	1577
CD_4	Methane-d_4	-	-	Freq, Mol interact	Johnston	PR	48	(1935)	868
		-	-	Quant mech	Wilson	JCP	3	(1935)	276
		-	-	Freq, Assign	Macwood	JCP	4	(1936)	402
		900-3200	G	Assign, Anal	Benedict	JCP	5	(1937)	1
		3.3-10μ	G	Spec, Mol anal	Nielsen	PR	54	(1938)	118
		-	-	Vib, Product rule	Redlich	JCP	7	(1939)	856
		-	-	Ratio rule	Edgell	JCP	13	(1945)	539
		-	-	Mol anal	Halverson	RMP	19	(1947)	87
		-	-	Quant mech	Decius	JCP	16	(1948)	214
		-	-	Force field	Heath	TFS	44	(1948)	561
		-	-	Force field, Freq	Linnett	TFS	45	(1949)	39
		-	-	Freq	Simanouti	JCP	17	(1949)	245
		-	-	Mol anal, Quant mech	Simanouti	JCP	17	(1949)	734
		-	-	Force const	Simpson	PRS	199	(1949)	169
		2-16μ	G	Spec	Thompson	JPC	56	(1952)	243
		-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
		-	G	Freq	Burgers	JOSA	43	(1953)	1058
		900-8500	G	Spec, FC, Mol anal	Kaylor	JCP	23	(1955)	2139
		-	-	Mol interact	Meal	JCP	24	(1956)	1126
		-	-	Partition fn	Dainton	TFS	53	(1957)	1204
		-	-	FC	Pistorius	JCP	27	(1957)	965
		900-3400	G	Spec, Assign	Wilmshurst	CJC	35	(1957)	226
CD_4N_2O	Urea-d_4	-	-	NCA, FC	Kellener	PRS	177	(1940)	456

		-	-	NCA	Yamaguchi	NKZ	78 (1957)	1319
		-	S	Spec	Yamaguchi	NKZ	78 (1957)	1467
		400-2000	S	Assign	Yamaguchi	SA	10 (1958)	170
CD_4N_2S	Thiourea-d_4	2-15 μ	S	Spec, Assign, NCA	Yamaguchi	JACS	80 (1958)	527
CD_4O	Methanol-d_4	2.5-18 μ	G	Spec, Assign	Noether	JCP	10 (1942)	693
		-	-	Ratio rule	Noether	JCP	11 (1943)	97
		-	-	Freq, FC	DeHemptinne	TFS	42 (1946)	5
		3-15 μ	G,L	Freq, Assign	Courtoy	ASS	61 (1947)	139
		-	-	Freq, FC, Vib anal	Halverson	RMP	19 (1947)	87
$C^{12}D_4O^{16}$	Methanol-d_4 (isotopic)	-	G	Microwave	Swalen	JCP	23 (1955)	1739
		-	-	Microwave	Venkateswarlu	JCP	23 (1955)	1195
		-	-	Microwave	Venkateswarlu	JCP	23 (1955)	1200
		400-3500	-	Assign, Spec, Mol consts	Gray	JCP	26 (1957)	690
CD_5N	Methylamine-d_5	24000-36000 Mc/sec	G	Microwave, Spec, Struct	Lide	JCP	27 (1957)	343
CD_5N_3	Guanidine-d_5	400-4000	S	Freq, Assign, FC	Jones	TFS	55 (1959)	524
CD_6N_3	Guanidinium ion-d_6	-	-	NCA, FC	Kellner	PRS	177 (1941)	456
		-	-	Vib anal	Halverson	RMP	19 (1947)	87
CD_8B_2	Monomethyldiborane-d_8	2-15 μ	G	Spec, Freq, Assign	Lehmann	JCP	32 (1960)	1088
CT_4	Methane-T_4	800-4000	G	Mol consts, Freq FC	Jones	JMS	2 (1958)	103
$CBrClF_2$	Bromochlorodifluoro-methane	2-36 μ	G	Spec, Vib anal, Assign	Plyler	JRNB	48 (1952)	92
		-	-	Sum rule	Bernstein	JCP	21 (1953)	2188
		-	-	Vib excit	Amme	JCP	23 (1955)	1960
		-	-	Collision excit	Rossing	JCP	23 (1955)	1118
$CBrCl_2F$	Bromodichlorofluoro-methane	-	-	Sum rule	Bernstein	JCP	21 (1953)	2188
$CBrCl_3$	Bromotrichloromethane	-	-	Vib anal	Volkringer	JCP	8 (1940)	126
		-	-	Freq, Assign	Wu	JCP	10 (1942)	116
		22-39 μ	L	Freq	Plyler	JCP	17 (1949)	218
		-	-	Quant mech	Simanouti	JCP	17 (1949)	245
		-	-	Quant mech	Simanouti	JCP	17 (1949)	734
		-	L	FC	Zietlow	PR	75 (1949)	333
		400-10000	L	Spec, Thermo	Medigan	JCP	19 (1951)	119

		2-38 μ	G,L	Assign, Spec	Plyler	JRNB	47	(1951)	202
		-	-	FC	Pontrelli	JCP	20	(1952)	1949
		200-270	L	Spec	Acquista	JOSA	43	(1953)	977
		-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
		-	-	FC	Meister	JCP	21	(1953)	158
		-	-	Freq, Product rule	Pitzer	JCP	21	(1953)	855
		-	-	NCA	Weber	JCP	23	(1955)	2207
$CBrF_3$	Bromotrifluoromethane	550-1206	G	IR, Freq, Assign	Edgell	JCP	20	(1952)	1822
		2-16 μ	G	Spec	Hauptschein	JACS	74	(1952)	1347
		2-36 μ	G	Spec, Assign	Plyler	JRNB	48	(1952)	92
		-	-	Freq, Assign	Polo	JCP	20	(1952)	1183
		-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
		2-25 μ	G	Spec, Assign, NCA, Thermo	McGee	JCP	21	(1953)	242
		-	-	Freq, Product rule	Pitzer	JCP	21	(1953)	855
		2-25 μ	G	IR, Spec, Assign	Edgell	JCP	22	(1954)	1808
		-	-	Ident	Husted	JACS	76	(1954)	3141
		-	G	FC, Spec	Taylor	JCP	22	(1954)	714
		-	-	Vib excit	Amme	JCP	23	(1955)	1960
		-	-	Collision excit	Rossing	JCP	23	(1955)	1118
$CBr^{79}F_3$	Bromotrifluoromethane (isotopic)	-	G	Microwave	Sheridan	JCP	20	(1952)	591
		-	-	Mol consts	Dowling	JMS	1	(1957)	265
$CBr^{81}F_3$	Bromotrifluoromethane (isotopic)	-	G	Microwave	Sheridan	JCP	20	(1952)	591
$C^{12}Br^{79}F_3$	Bromotrifluoromethane (isotopic)	-	-	Microwave	Sharbaugh	PR	77	(1950)	302
		-	-	Microwave	Sheridan	PR	77	(1950)	292
$C^{12}Br^{81}F_3$	Bromotrifluoromethane (isotopic)	-	-	Microwave	Sharbaugh	PR	77	(1950)	302
		-	-	Microwave	Sheridan	PR	77	(1950)	292
CBr_2ClF	Chlorodibromofluoromethane	-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
CBr_2Cl_2	Dibromodichloromethane	-	-	Vib anal	Volkringer	JCP	8	(1940)	126
		-	-	Freq, Assign	Wu	JCP	10	(1942)	116
		22-39 μ	L	Freq	Plyler	JCP	17	(1949)	218
		-	-	Freq, Quant mech	Simanouti	JCP	17	(1949)	245
		-	-	Quant mech	Simanouti	JCP	17	(1949)	734
		2-38 μ	L	Assign, Spec	Plyler	JRNB	47	(1951)	202
		1-25 μ	G,L	IR, Assign, Thermo	Davies	JCP	20	(1952)	454
		-	-	FC	Pontarelli	JCP	20	(1952)	1949

		-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
		-	-	FC	Meister	JCP	21	(1953)	158
		-	-	Freq, Product rule	Pitzer	JCP	21	(1953)	855
		40-50 μ	L	Spec	Plyler	JOSA	43	(1953)	212
CBr_2F_2	Dibromodifluoromethane	-	-	Thermo	Glockler	JCP	9	(1941)	527
		2-36 μ	G,L	Spec, Assign	Plyler	JRNB	48	(1952)	92
		-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
		450-4000	G	IR, Spec, FC, Thermo	Decker	JCP	21	(1953)	1781
		-	-	Freq, Product rule	Pitzer	JCP	21	(1953)	855
		-	-	Vib excit	Amme	JCP	23	(1955)	1960
		-	-	FC	Palm	JCP	23	(1955)	726
		-	-	Collision excit	Rossing	JCP	23	(1955)	1118
		9400 Mc/sec	G	Absorption	Boggs	JPC	63	(1959)	1127
CBr_3Cl	Chlorotribromomethane	-	-	Vib anal	Volkringer	JCP	8	(1940)	126
		-	-	Freq, Assign	Wu	JCP	10	(1942)	116
		-	-	Quant mech	Simanouti	JCP	17	(1949)	245
		-	-	Quant mech	Simanouti	JCP	17	(1949)	734
		700-5000	Sol	IR, Assign	Meister	JCP	18	(1950)	346
		36 μ	L	Assign, Spec	Plyler	JRNB	44	(1950)	503
		-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
		-	-	FC	Meister	JCP	21	(1953)	158
		-	-	Freq, Product rule	Pitzer	JCP	21	(1953)	855
		-	-	Mol consts	Krupp	JCP	24	(1956)	355
CBr_3F	Fluorotribromomethane	150-1070	L	Assign	Meister	JCP	18	(1950)	346
		-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
		-	-	Freq, Product rule	Pitzer	JCP	21	(1953)	855
		-	-	Mol consts	Krupp	JCP	24	(1956)	355
CBr_3NO_2	Bromopicrin	-	L	Band freq	Haszeldine	JCS	-	(1953)	2525
		-	-	gr freq	Jauder	JCS	-	(1954)	919
		1800-450	L,G	Assign	Mason	JCS	-	(1956)	759
		2-15 μ	L,G	Freq, Assign	Mason	JCS	-	(1959)	2014
CBr_4	Carbon tetrabromide	-	-	Vib theory	Urey	PR	38	(1931)	1969
		-	-	Freq, Review	Villars	CR	11	(1932)	369
		-	-	Vib theory	Rosenthal	PR	46	(1934)	730
		-	-	Quant mech	Wilson	JCP	2	(1934)	432
		-	-	Thermo	Stevenson	JCP	6	(1938)	25
		-	-	Bond dist	Sutherland	TFS	34	(1938)	325
		-	-	Mol anal	Volkringer	JCP	8	(1940)	126
		-	-	Freq, Assign	Wu	JCP	10	(1942)	116
		-	-	Quant mech	Decius	JCP	16	(1948)	214

	-	-	Force field	Heath	TFS	44	(1948)	561
	-	-	Force field	Heath	TFS	44	(1948)	878
	-	-	Freq, Quant mech	Simanouti	JCP	17	(1949)	245
	-	-	Freq, FC	Simanouti	JCP	17	(1949)	734
	-	-	Mol anal, Quant mech	Simanouti	JCP	17	(1949)	848
	700-500	Sol	IR, Assign	Meister	JCP	18	(1950)	346
	2-36μ	L	Spec, Assign	Plyler	JRNB	44	(1950)	503
	12-15μ	G	Assign, Spec	Plyler	JRNB	47	(1951)	202
	-	-	Freq	Edgell	JPC	56	(1952)	326
	-	-	Force field study	Linnett	TFS	48	(1952)	592
	-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
	-	-	Freq, Product rule	Pitzer	JCP	21	(1953)	855
	-	-	FC	Gaunt	TFS	50	(1954)	546
	-	-	NCA	Long	PRS	223	(1954)	130
	7-23μ	Sol	Spec	Yoshino	BCSJ	27	(1954)	592
	267	-	Freq	Hahn	JCP	24	(1956)	921
	-	-	Thermo	Marshall	TFS	52	(1956)	19
	-	L,S	I	Lisitsa	OS	7	(1959)	638
Chlorotrifluoromethane	-	-	Freq, Assign	Wu	JCP	10	(1942)	116
	500-1700	G	Thermo, Spec	Thompson	JCS	-	(1948)	1422
	-	-	FC, Thermo	Decker	JCP	19	(1951)	784
	-	-	Microwave	Mizushima	PR	83	(1951)	94
	2-30μ	G	Assign, Spec	Plyler	JRNB	47	(1951)	202
	-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
	-	-	Ident	Haszeldine	JCS	-	(1953)	2075
	-	-	Freq, Assign	McGee	JCP	21	(1953)	242
	-	-	Product rule	Pitzer	JCP	21	(1953)	855
	-	G	Assign	Claasen	JCP	22	(1954)	50
	300-3000	-	Freq	Edgell	JCP	22	(1954)	1808
	-	L	Assign	Rolfe	TFS	50	(1954)	1030
	-	G	Spec, FC	Taylor	JCP	22	(1954)	714
	-	-	Vib excit	Amme	JCP	23	(1955)	1960
	-	-	Collision excit	Rossing	JCP	23	(1955)	1118
	-	G	Barrier establishment	Vanderkovi	JPC	60	(1956)	636
	1200-24000 Mc/sec	G	Spec	Birnbaun	JCP	27	(1957)	360
	74000	-	I, Freq	Herranz	ARS	50	(1959)	69
	-	-	NCA, I	Morcillo	ARS	50	(1959)	77
	-	G	Freq, Temp effect	Maryott	JCP	32	(1960)	1501
	1190 Mc/sec	G	Dielectric consts	Maryott	JPC	64	(1960)	1778
	400-4000	S	Struct, Assign	Waddington	JCS	-	(1960)	2339

$CClF_3O_2S$	Trifluoromethanesulfonyl chloride	6-9μ	G	Assign	Haszeldine	JCS	-	(1955)	2901
$CClF_3S$	Trifluoromethane-sulphenyl chloride	-	-	Freq	Haszeldine	JCS	-	(1953)	3219
		400-4000	G	Freq, Assign	Nabi	JCS	-	(1959)	3439
CCl_2F_2	Dichlorodifluoromethane	-	-	Quant mech	Wilson	JCP	2	(1934)	432
		-	-	Freq, Assign	Wu	JCP	10	(1942)	116
		500-1700	G	Thermo, Spec	Thompson	JCS	-	(1948)	1422
		2-30μ	G	Assign, Spec	Plyler	JRNB	47	(1951)	202
		-	G	Thermo	Masi	JACS	74	(1952)	4738
		-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
		-	-	Ident	Haszeldine	JCS	-	(1953)	2075
		-	-	Freq, Product rule	Pitzer	JCP	21	(1953)	855
		-	G	Assign	Claassen	JCP	22	(1954)	50
		-	-	FC	Dowling	JCP	22	(1954)	1789
		-	-	Vib excit	Amme	JCP	23	(1955)	1960
		-	-	Collision excit	Rossing	JCP	23	(1955)	1118
		-	-	I	True	PR	99	(1955)	1624
		9400 Mc/sec	G	Absorp	Boggs	JPC	63	(1959)	1127
		-	-	I	Morcillo	ARS	56	(1960)	65
CCl_2F_3P	Dichlorotrifluoro-methylphosphine	4.39-13.34μ	G	Table	Bennett	JCS	-	(1953)	1565
		-	-	Ident, CF_3 deformation	Bennett	JCS	-	(1954)	3896
CCl_2F_3As	Trifluoromethyl-dichloroarsine	-	G,S	Freq	Emeleus	JCS	-	(1953)	1552
CCl_3F	Fluorotrichloromethane	-	-	Freq, Assign	Glockler	JCP	8	(1940)	699
		-	-	Thermo	Glockler	JCP	9	(1941)	527
		-	-	Freq, Assign	Wu	JCP	10	(1942)	116
		500-1700	-	Thermo, Spec	Thompson	JCS	-	(1948)	1422
		2-30μ	L,G	Spec, Mol anal	Plyler	JRNB	47	(1951)	202
		-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
		400-3200	G	Spec, Assign, Thermo	Bernstein	JCP	21	(1953)	1778
		-	-	Freq, Product rule	Pitzer	JCP	21	(1953)	855
		-	G	Assign	Claassen	JCP	22	(1954)	50
		-	-	Vib excit	Amme	JCP	23	(1955)	1960
		-	-	Collision excit	Rossing	JCP	23	(1955)	1118
		-	-	NCA	Weber	JCP	23	(1955)	2207
		-	-	Spec, Vap-liq shift	Benson	JCP	27	(1957)	1164
		74000	-	I, Freq	Herranz	ARS	50	(1959)	69
		-	-	NCA	Morcillo	ARS	50	(1959)	77
		-	G	Microwave spec	Long	JCP	33	(1960)	508

CCl_3NO_2	Chloropicrin	1800-450	L,G	Assign	Mason	JCS	-	(1956)	759
		2-15μ	L,G	Spec, Freq, Assign	Mason	JCS	-	(1959)	2014
CCl_3NSSi	Trichlorosilyl isothiocyanate	280-3000	-	Spec, Assign, Struct	Goubean	ZAUA	294	(1958)	96
CCl_4	Carbon tetrachloride	1.5-16μ	L,Sol	Spec, Dispersion	Marvin	PR	3-4	(1912)	161
		52μ	L	Transparency	Hollangel	PR	11	(1918)	505
		0.8-2.0μ	L	Magnetic rotation	Ingersoll	JOSA	6	(1922)	663
		6-7μ	L	Spec	Daniels	JACS	47	(1925)	2856
		6-15μ	-	Spec	Coblentz	PR	33	(1929)	1092
		-	-	Spec	Langer	PR	33	(1929)	1097
		-	-	Freq, Thermo	Lecomte	TFS	25	(1929)	864
		-	-	Assign	Marvin	PR	33	(1929)	952
		-	-	Mech models of normal vibrations	Kettering	PR	36	(1930)	531
		20-125μ	L	Transmission	Strong	PR	38	(1931)	1818
		6.7-33μ	G	Transmission	Strong	PR	37	(1931)	1565
		-	-	Mol theory	Urey	PR	38	(1931)	1969
		-	-	Freq	Villars	CR	11	(1932)	369
		-	-	Quant mech	Van Vleck	JCP	1	(1933)	219
		-	-	Vibration theory	Rosenthal	PR	46	(1934)	730
		-	-	Quant mech	Wilson	JCP	2	(1934)	432
		52-152μ	L	Transmission, Dispersion	Cartwright	PRS	154	(1936)	138
		-	-	Freq, Assign	Lord	JCP	4	(1936)	707
		0.6-9.0μ	L	Ref index, Scattering	Pfund	JOSA	26	(1936)	230
		-	-	FC	Rosenthal	PR	49	(1936)	535
		-	-	Freq, Assign	Voge	JCP	4	(1936)	137
		-	-	Freq, Assign	Yost	JCP	4	(1936)	325
		5.6-6μ	-	Spec	Gordy	JCP	5	(1937)	284
		2.5-3.1μ	L	Spec, H bond	Gordy	JACS	59	(1937)	464
		.7-2μ	L	Kerr effect	Ingersoll	JOSA	27	(1937)	411
		2.6-3.5μ	-	Spec	Davies	JCP	6	(1938)	755
		-	-	Thermo	Stevenson	JCP	6	(1938)	25
		-	-	Interatomic distance	Sutherland	TFS	34	(1938)	325
		-	-	Spec	Wu	JCP	6	(1938)	114
		2.5-7.5μ	Sol	Spec	Fox	PRS	174	(1940)	234
		-	-	Mol anal	Volkringer	JCP	8	(1940)	126
		-	-	Freq, Assign	Wu	JCP	10	(1942)	116
		1050-1800	-	Spec	Barnes	IEC	15	(1943)	659
		-	L	Analysis	Fuoss	RSI	16	(1945)	53
		3-20μ	L	Spec	Torkington	TFS	41	(1945)	184
		-	-	Quant mech	Decius	JCP	16	(1948)	214

-	-	Force field	Heath	TFS	44	(1948)	561
-	-	Force field	Heath	TFS	44	(1948)	878
24-40μ	-	Freq	Plyler	JCP	16	(1948)	1008
295-340	G	Spec, Assign, IR	Gates	JCP	17	(1949)	393
-	-	Freq by quant mech	Simanouti	JCP	17	(1949)	245
-	-	Mol anal	Simanouti	JCP	17	(1949)	734
-	-	Freq, FC	Simanouti	JCP	17	(1949)	848
2-16μ	L	Spec	Beamer	AC	22	(1950)	303
2-15μ	-	Spec	Patinkin	JACS	72	(1950)	2778
400-10000	L,G	IR, Freq, Assign, Thermo	Madigan	JCP	19	(1951)	119
2-38μ	L	Assign, Spec	Plyler	JRNB	47	(1951)	202
2689	Sol	H bond	Searles	JACS	73	(1951)	3704
720-800	L	Spec	Simon	JOSA	41	(1951)	336
-	-	Force field	Linnett	TFS	48	(1952)	592
15-25μ	L	Transparent solvent	Marrison	JSI	29	(1952)	233
2-15μ	L	Spec	Pristera	APS	6	(1952)	29
2600-2800	Sol	OD bond, Spec	Tamres	JACS	48	(1952)	3375
8-14.5μ	Sol	Band freq	Urone	AC	24	(1952)	626
2-16μ	L	Spec	Anderson	JOSA	43	(1953)	221
-	L	Mixture with benzene	Bellamy	JAPC	3	(1953)	421
-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
-	-	FC	Bowers	JCP	21	(1953)	1117
-	-	Purity testing	Greinacher	ANC	65	(1953)	291
-	-	Vib amplitude theory	Marino	JCP	21	(1953)	1927
-	-	Spec, Assign	Claassen	JCP	22	(1954)	50
-	-	FC	Gaunt	TFS	50	(1954)	546
-	-	I, NCA	Long	PRS	223	(1954)	130
2.5-8μ	L	Spec	Blount	JSI	32	(1955)	471
-	-	Vib amplitude theory	Morino	JCP	23	(1955)	737
-	G	Energy transfer by collision	Sette	JCP	23	(1955)	787
-	-	Temp effect on I	Slowinski	JOSA	45	(1955)	396
780-1550	L,G,Sol	Spec, Isotope effect	Tuomikoski	JCP	23	(1955)	2083
100-660	L	Spec, Freq, Assign	Yoshinaga	JCP	23	(1955)	2206
458	-	Freq	Hahn	JCP	24	(1956)	921
.9-3μ	L	Spec	Holman	AC	28	(1956)	1533
-	-	Application of theory of depolarizing light	Buckingham	TFS	53	(1957)	884
1-16μ	L	Dispersion	Jaffe	JOSA	47	(1957)	782
-	-	Effect as solvent	Pinchas	AC	29	(1957)	334
760-800	G,L	Temp effect	Lisitsa	IANS	22	(1958)	1117
470-12500	-	Resonance	Lisitsa	UFZ	3	(1958)	482
-	G	Temp effect	Lisitsa	UFZ	3	(1958)	773
14μ	L	Absorption coeff	Kagarise	JCP	31	(1959)	1258

		-	Sol	Resonance doublet	Lisitsa	OS	7	(1959)	632
		8-12μ	-	Relative absorbance	Spell	AC	31	(1959)	621
		-	-	FC, Freq	Verlan	UFZ	4	(1959)	606
		-	G,L	Freq	Lisitsa	UFZ	5	(1960)	34
CCl_4O_2S	Trichloromethane-sulfonyl chloride	6-9μ	G,S,Sol	Freq, Assign, Correlation	Haszeldine	JCS	-	(1955)	2901
CCl_4S	Perchloromethanethiol	1500-2100	Sol	Transitions, Spec	Ketelaar	JCP	23	(1955)	1549
CF_3I	Iodotrifluoromethane	-	-	Microwave	Sheridan	PR	77	(1950)	292
		540-1185	G	IR, Assign	Edgell	JCP	20	(1952)	1822
		2-16μ	G	Spec	Hamptschein	JACS	74	(1952)	1347
		2-36μ	G	Spec, Anal, Assign	Plyler	JRNB	48	(1952)	92
		-	-	Freq, Assign	Polo	JCP	20	(1952)	1183
		-	-	Ident	Haszeldine	JCS	-	(1953)	3559
		2-25μ	G	Spec, Assign, NCA, Thermo	McGee	JCP	21	(1953)	243
		2-25μ	G	IR, Assign	Edgell	JCP	22	(1954)	1808
		-	L	FC	Taylor	JCP	22	(1954)	714
		-	-	Rot distortion	Dowling	JMS	1	(1957)	265
CF_3I^{127}	Iodotrifluoromethane (isotopic)	-	G	Microwave	Sheridan	JCP	20	(1952)	591
CF_3I_2P	Diiodotrifluoromethyl-phosphine	7.86-13.55μ	L	Table	Bennett	JCS	-	(1953)	1565
		-	-	Freq, Ident	Bennett	JCS	-	(1954)	3896
CF_3I_2AS	Diiodotrifluoromethyl-arsine	-	G,S	Freq	Emeleus	JCS	-	(1953)	1552
CF_3NO	Trifluoronitrosomethane	-	-	Freq	Haszeldine	JCS	-	(1953)	4172
		-	-	Table, Freq	Jauder	JCS	-	(1954)	912
		-	-	Freq	Jauder	JCS	-	(1954)	919
		3800-420	G	Assign	Mason	JCS	-	(1956)	754
CF_3NO_2	Trifluoronitromethane	-	-	gr freq	Haszeldine	JCS	-	(1953)	4172
		3.39-13.44μ	-	Table, gr freq, Ident	Jauder	JCS	-	(1954)	912
		-	-	gr freq	Jauder	JCS	-	(1954)	919
CF_3O_2AS	Trifluoromethylarsonic anhydride	-	-	gr freq	Emeleus	JCS	-	(1954)	881

CF_4	Carbon tetrafluoride	-	-	Freq assign	Yost	JCP	4	(1936)	325
		-	-	Freq assign	Baclen	JCP	5	(1937)	294
		-	-	Freq assign	Hatcher	JCP	5	(1937)	992
		2-18μ	G	Spec, Freq, FC	Bailey	PRS	167	(1938)	555
		-	-	Bond dist	Sutherland	TFS	34	(1938)	325
		-	-	Anal	Glockler	JCP	9	(1941)	224
		-	-	Freq, Assign	Wu	JCP	10	(1942)	116
		-	-	Bond dist	Bernstein	JCP	16	(1948)	30
		-	-	Force field	Heath	TFS	44	(1948)	561
		-	-	Freq, FC	Pace	JCP	16	(1948)	74
		-	-	Freq, FC	Simanouti	JCP	17	(1949)	848
		-	-	Intramolecular forces	Heath	JCP	18	(1950)	147
		-	-	FC	Pace	JCP	18	(1950)	881
		-	-	Freq	Cote	PRS	210	(1951)	217
		-	-	FC, Thermo	Decker	JCP	19	(1951)	784
		-	-	Force field	Linnett	JCP	19	(1951)	801
		2-30μ	G	Spec, Assign	Plyler	JRNB	47	(1951)	202
		-	-	Freq	Caunt	TFS	48	(1952)	873
		-	-	Freq	Edgell	JPC	56	(1952)	326
		-	-	Force field	Linnett	TFS	48	(1952)	592
		2-33μ	G	Spec, Freq, Assign	Woltz	JCP	20	(1952)	307
		-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
		-	-	Freq, Assign	McGee	JCP	21	(1953)	242
		-	-	Freq, Product rule	Pitzer	JCP	21	(1953)	855
		-	G	Bond moment, I	Schatz	JCP	21	(1953)	1516
		-	G	Assign	Claassen	JCP	22	(1954)	50
		-	-	FC, Quant mech	Aihara	JCP	23	(1955)	1563
		-	-	Vib excit	Amme	JCP	23	(1955)	1960
		-	-	Collision excit	Rossing	JCP	23	(1955)	1118
		-	-	Freq	Sheppard	JCP	23	(1955)	582
		-	-	Freq	Hahn	JCP	24	(1956)	921
		-	-	Trans moments	McKean	JCP	24	(1956)	1002
		-	-	IR, Bond moments	Wilmshurst	JPC	62	(1958)	631
		1-20μ	G	Mol vib, I	Schurin	JCP	30	(1959)	1
CF_4O	Fluoroxymethforane	2-25μ	G	IR, Spec, Assign	Lagemann	JCP	20	(1952)	1768
CF_8S	Trifluoromethylsulfur pentafluoride	3.36-14.50μ	-	I, Table	Clifford	JCS	-	(1953)	2372
$CF_{12}S_2$	Difluoromethylenebis-sulfur pentafluoride	4.17-14.5μ	-	I, Table	Clifford	JCS	-	(1953)	2372
CI_4	Carbon tetraiodide	-	-	Bond dist	Sutherland	TFS	34	(1938)	325

CN_4O_8	Tetranitromethane	-	L	Spec, Solvent	Pristera	APS	6	(1952)	29
		-	L	Freq, I	Lindenmeyer	JCP	21	(1953)	408
		2-18μ	S,L,G	IR, Assign	Haszeldine	JCS	-	(1953)	2525
		-	-	Band freq	Jauder	JCS	-	(1954)	912

C_2 COMPOUNDS

C_2HD	Acetylene-d_1	-	G	Freq, Mol anal	McKellar	PR	46	(1934)	664
		-	-	Freq	Randall	PR	45	(1934)	124
		-	-	Freq, Cal	Colby	PR	47	(1935)	388
		2-10μ	G	Freq	Nielson	PR	57	(1940)	346
		450-4000	G	Spec, Assign	Stitt	JCP	8	(1940)	56
		-	-	Mol anal	Halverson	RMP	19	(1947)	87
		-	-	I	Decius	JCP	20	(1952)	1039
		-	-	Freq	El-Sabban	JCP	20	(1952)	1810
		-	G	Spec, Struc, Mol const	Herzberg	N	169	(1952)	997
		-	-	Mol consts	Saksena	JCP	20	(1952)	95
		-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
		-	G	I, Bond moments	Eggers	JPC	59	(1955)	1124
		-	G	Mol spec	Overend	PRS	234	(1956)	306
		3-16μ	G	Mol spec, Mol const	Christensen	PRS	238	(1957)	15
C_2HDBr_2	1,1-Dibromoethylene-d_1	-	-	Freq, FC	DeHemptinne	TFS	42	(1946)	5
C_2HDClO_2	Chloroacetate ion-d_1	-	-	Assign	Nakamura	NKZ	79	(1958)	1420
$C_2HDCl_2O_2$	Dichloroacetic acid-d_1	1500-1700	G	Spec, Freq assign	Hadzi	SA	12	(1958)	162
		-	-	Assign	Olero	ARS	55B	(1959)	205
C_2HDF_2	1,1-Difluoroethylene-d_1	2-40μ	G	IR, Spect, Assign	Edgell	JCP	22	(1954)	1983
		-	-	Struc	Edgell	JACS	79	(1957)	2691
		-	G	Struc, Microwave	Kinsey	DA	17	(1957)	1910
C_2HDO	Ketene-d_1	-	G	Freq, Assign	Fletcher	JCP	19	(1951)	1431
		450-3600	-	Spec, Assign, NCA	Arendale	JCP	26	(1957)	793
$C_2^{12}HDO^{16}$	Ketene-d_1-(isotopic)	-	G	Microwave	Johnson	JCP	20	(1952)	687
C_2HD_2Br	1-Bromo-1, 2-dideutero-ethylene	-	-	Freq, FC	DeHemptinne	TFS	42	(1946)	5
		-	-	FC	Torkington	PRS	206	(1951)	17

$C_2HD_2Br_3O_2$	Bromal hydrate-d_2	400-3800	S	Spec, Freq, I	Novak	SA	16 (1960) 521
$C_2HD_2ClO_2$	Chloroacetic acid-d_2	-	-	Assign, Struct	Nakamura	NKZ	80 (1959) 225
$C_2HD_2Cl_3O_2$	Chloral hydrate-d_2	600-3000	-	Freq, Spec	Anderson	SA	12 (1958) 233
		400-3800	S	Spec, Freq, I	Novak	SA	16 (1960) 521
C_2HD_2F	Vinyl fluoride-1,2-d_2	400-3500	G	Assign	Bak	SA	12 (1958) 355
C_2HD_2FO	Acetyl fluoride-d_2	-	G	Spec	Pierce	JCP	31 (1959) 875
$C_2HD_2F_3$	1,1,1-Trifluoroethane-2,2-d_2	-	-	Struct	Edgell	JACS	79 (1957) 2391
C_2HD_3	Ethylene-d_3	-	-	Spec	DeHemptinne	JCP	6 (1938) 319
		-	-	Spec	Halverson	RMP	19 (1947) 87
		580-3300	G	Spec, Assign	Arnett	JCP	18 (1950) 118
		-	G	Mol spec	Herzberg	N	169 (1952) 997
		-	-	Sum rule	Bernstein	JCP	21 (1953) 2188
		-	-	Freq	Crawford	JCP	21 (1953) 678
$C_2HD_3Br_2$	1,2-Dibromoethane-d_3	-	-	Cis-trans isomers	Neu	JCP	18 (1950) 1642
$C_2HD_3O_2$	Acetic acid-c-d_3	1-14 μ	-	Spect	Herman	JCP	7 (1939) 460
		-	-	H bond	Davies	JCP	16 (1948) 267
		790-3640	G	Assign, Thermo	Wettner	JCP	77 (1955) 3941
		-	-	Spec, Struct	Taber	JCP	27 (1957) 974
C_2HD_5	Ethane-d_5	2-22 μ	G	Spec	Stitt	JCP	7 (1939) 297
$C_2HBrClF_3$	1-Bromo-1-chloro-2,2,2-Trifluoroethane	-	G	Spec, Assign, Thermo	Nielsen	BAPS	2 (1957) 99
		300-6000	G	Spec, Assign, Thermo	Theimer	JCP	27 (1957) 887
$C_2HBrClF_3$	1-Bromo-2-chloro-1,1,2-Trifluoroethane	2-15 μ	G	Spec	Lacher	JACS	72 (1950) 3231
		-	-	Ident	Haszeldine	JCS	- (1954) 3747
$C_2HBrClF_3$	2-Bromo-2-chloro-1,1,1 Trifluoroethane	300-6000	G	Spec, Thermo	Theimer	JCP	27 (1957) 887
$C_2HBrCl_2F_2$	1-Bromo-2,2-dichloro-1,1-difluoroethane	2-15 μ	G	Spec	Lacher	JACS	72 (1950) 3231
C_2HBrCl_2O	Dichloroacetyl bromide	-	-	C=O freq	Kagarise	JACS	77 (1955) 1377
C_2HBrF_2	2-Bromo 1,1-Difluoroethylene	700-5000	G	Spec	Theimer	JCP	27 (1957) 264

C_2HBrF_3NO	α-Trifluoro-N-bromo-acetamide	1-15 μ	S,Sol	Spec, Assign	Lacher	JACS	74 (1952) 5578
		-	-	Bromination studies	Park	JACS	76 (1954) 1388
C_2HBrF_4	1-Bromo-1,1,2,2-Tetrafluoroethane	2-15 μ	G	Spec	Lacher	JACS	72 (1950) 3231
		3.36-15.17	G	I	Haszeldine	JCS	- (1954) 3747
$C_2HBr_2F_3$	1,1-Dibromo-2,2,2 trifluoroethane	-	G	Spec, Assign, Thermo	Nielsen	BAPS	2 (1957) 99
$C_2HBr_2F_3$	1,2-Dibromo-1,2,2-trifluoroethane	2-15 μ	G,L	Spec	Park	JACS	73 (1951) 711
C_2HBr_3	Tribromoethane	-	-	Vib, Sum rule	Bernstein	JCP	24 (1956) 910
$C_2HBr_3O_2$	Tribromoacetic acid	5.5-6.5 μ	Sol	Ident	Sawicki	AC	31 (1959) 523
		1580-1900	Sol	Freq, I	Bellanato	SA	16 (1960) 1333
C_2HCl	Chloroacetylene	-	-	Microwave	Westenberg	JCP	17 (1949) 1319
		2-30 μ	G	Spec, FC	Richardson	JCP	18 (1950) 1314
		-	-	Hybridization, Reso	Duchense	JCP	19 (1951) 246
		-	-	C-H bending freq	Ferigle	JCP	20 (1952) 1928
C_2HCl^{37}	Chloroacetylene-Cl^{37} (isotopic)	-	-	Microwave	Westenberg	JCP	17 (1949) 1319
C_2HClF_2	1-Chloro-2,2-difluoro-ethylene	2-38 μ	G,L	IR, Spec, Assign, Thermo	Nielsen	JCP	20 (1952) 1090
C_2HClF_2	1,1-Difluorovinyl chloride	1900-2500	G	Microwave, Struct	Jenkins	TFS	55 (1959) 1473
C_2HClO_2S	Ethynesulfonyl chloride	-	L,Sol	Ident	Rondestvedt	JACS	76 (1954) 1926
$C_2HCl_2F_3$	1,2-Dichloro-1,1,2-Trifluoroethane	2-15 μ	G	Spec	Park	JACS	73 (1951) 711
		2-38 μ	G,L	IR, Spec, Assign, Thermo	Nielsen	JCP	21 (1953) 1060
		-	-	Assign, Thermo	Luft	JCP	22 (1954) 155
		150-4500	G	Spec	Catalano	JPC	62 (1958) 838
C_2HCl_2N	Dichloromethyl nitrile	2200-2300	G	Struc	Jesson	SA	13 (1958) 217
C_2HCl_3	Trichloroethylene	1-2.5 μ	L	Spec	Smith	JACS	48 (1926) 1512
		-	-	Freq	Bonino	TFS	25 (1929) 876

		2-25μ	G	Spec, IR, Assign	Wu	PR	46	(1934)	465
		24-40μ	-	Freq	Plyler	JCP	16	(1948)	1008
		2.5-25μ	-	Assign	Bernstein	CJR	28B	(1950)	132
		-	-	IR, Chem binding	Mecke	JCP	20	(1952)	1935
		8-14.5μ	Sol	Table	Urone	AC	24	(1952)	626
		-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
		-	-	Freq	Daach	JCP	22	(1954)	1293
		-	L	Decomp of chloroform	Semeluk	JACS	76	(1954)	3793
		3000	Sol	Freq	Bernstein	JCP	23	(1955)	2201
		172-3924	L,Sol	Vib assign, Table	Houser	JACS	77	(1955)	6201
		-	-	Vib sum rule	Bernstein	JCP	24	(1956)	910
C_2HCl_3O	Chloral	-	-	FC	Linnett	TFS	41	(1945)	223
		-	Sol	Extinction coeff	Pinchas	AC	27	(1955)	226
		1700-1800	G	Freq	Bellamy	JCS	-	(1958)	3468
C_2HCl_3O	Dichloroacetyl chloride	-	-	Impurity in $TiCl_4$	Johannesen	JRNB	53	(1954)	197
		-	L	C=O freq	Kagrise	JACS	77	(1955)	1377
		1700-1800	G	Freq	Bellamy	JCS	-	(1958)	3468
		600-3000	S,L,G	Freq assign, Struc	Miyake	SA	13	(1958)	161
$C_2HCl_3O_2$	Dichloromethyl chloroformate	13.58μ	-	Photo chlorination	Brandy	JCP	21	(1953)	1049
$C_2HCl_3O_2$	Trichloroacetic acid	2-8μ	Sol	Spec, Assign	Bennett	JACS	49	(1927)	50
		1300-2000	Sol	Spec, Substi, Assoc	Gillette	JACS	58	(1936)	1143
		2.8-6.5μ	Sol	Dissociation	Plyler	PR	49	(1936)	868
		9000-11000	Sol	Spec, H bond	Badger	JCP	5	(1937)	369
		-	-	Spec	Badger	JCP	5	(1937)	837
		10000-10275	G	Spec, H bond	Bauer	JCP	5	(1937)	852
		2100-3800	Sol	Spec, H bond	Bushwell	JACS	60	(1938)	2239
		2.6-7.4μ	-	Spec, H bond	Davies	JCP	6	(1938)	755
		-	-	H bond	Rodebush	JPC	43	(1939)	219
		11.5-15μ	Sol	Spec	Davies	TFS	36	(1940)	333
		2.6-4.6μ	L,Sol	Spec	Davies	TFS	36	(1940)	1114
		-	-	FC	Richards	TFS	44	(1948)	40
		3500-2600	-	H bond	Chulanovskii	DANS	68	(1949)	1033
		3300	L	FC, H bond	Davies	JCP	20	(1952)	342
		1146-1784	Sol	Freq	Fuson	JCP	20	(1952)	1627
		2259-3497	Sol	Struct	Fuson	JOSA	43	(1953)	1102
		650-1500	S,Sol	IR, Assign	Hadzi	PRS	216	(1953)	247
		-	Sol	Dissociat const	Goulden	SA	6	(1954)	129
		2503-3526	Sol	Bond freq, React rate	Harris	JACS	76	(1954)	1419
		-	L,S,Sol	Freq	Bratoz	SA	8	(1956)	249
		-	Sol	Freq	Bavin	CJC	35	(1957)	1555

		400-4000	L,Sol	Spec, Assign	Jorge	ARS	53B	(1957)	339
		1500-700	G	Freq, Spec, Assign	Hadzi	SA	12	(1958)	162
		1580-1900	Sol	Freq, I	Bellanato	SA	16	(1960)	1333
C_2HCl_5	Pentachloroethane	.8-3μ	L	Spec, Freq	Spence	PR	34	(1929)	730
		-	L	I	Shearin	PR	35	(1930)	973
		1-14μ	L	Spec	Stair	JRNB	15	(1935)	295
		-	-	FC	Linnett	TFS	41	(1945)	223
		500-1500	L	Spec	Thompson	PRS	184	(1945)	21
		-	-	Thermo	Mizushima	JCP	17	(1949)	591
		8-14.5μ	Sol	Table, Band freq	Urone	AC	24	(1952)	626
		650-1300	Sol	Anal	Bernstein	AC	25	(1953)	139
		2-40μ	L	Spec, Assign, Thermo	Nielsen	JOSA	43	(1953)	1071
		-	L	Anal	Semeluk	JACS	76	(1954)	3793
		3-35μ	L	IR, Spect, Assign	Allen	CJC	32	(1954)	1124
		3000	Sol	Freq	Bernstein	JCP	23	(1955)	2201
		1160-2998	Sol	H bond, I	Halpern	JACS	77	(1955)	4472
		-	L	Spec	Plyler	JRNB	56	(1956)	149
C_2HF	Fluoroacetylene	-	G	Micro spec, Struct	Tyler	PRCS	-	(1960)	119
C_2HF_3	Trifluoroethylene	2-15μ	G	Spec	Park	JACS	73	(1951)	711
		-	-	Ident	Haszeldine	JCS	-	(1952)	4423
		2-50μ	G	Spec, Assign, Thermo	Mann	JCP	22	(1954)	1586
		-	-	Vib, Sum rule	Bernstein	JCP	24	(1956)	910
C_2HF_3O	Trifluoroacetaldehyde	2-16μ	Sol	Spec	Shechter	JACS	72	(1950)	3371
		2-15μ	G	Spec	Husted	JACS	74	(1952)	5422
		-	Sol	Ident	Pinchas	AC	27	(1955)	2
		-	G	Freq	Bellamy	JCS	-	(1957)	4294
		5000-400	G	Spec, Freq assign	Dodd	JCS	-	(1957)	2783
$C_2HF_3O_2$	Trifluoroacetic acid	-	-	FC	Walsh	TFS	43	(1947)	60
		2-15μ	L,G,Sol	IR, Spec, Assign	Fuson	JCP	20	(1952)	1627
		-	G,Sol	Freq	Josien	PR	87	(1952)	170
		-	Sol	C=O freq	Beuder	JACS	75	(1953)	5986
		-	-	Anal	Emmons	JACS	75	(1953)	6047
		2598-3587	G	Struct	Fuson	JOSA	43	(1953)	1102
		-	-	Struct	Fuson	PR	91	(1953)	234
		-	Sol	Dissociation const	Goulden	SA	6	(1954)	129
		-	-	Ident	Haszeldine	JCS	-	(1954)	4026
		-	Sol	H bond	Lawson	PR	95	(1954)	300
		2-24μ	G	Spec, Assign	Kagarise	JCP	27	(1957)	519

		5.5-6.5μ	Sol	Ident	Sowicki	AC	31	(1959)	523
		1580-1900	Sol	Freq, I	Bellanato	SA	16	(1960)	1333
C_2HF_5	Pentafluoroethane	-	-	Anal	Husted	JACS	76	(1954)	5141
		2-38μ	L,G	IR, Assign	Nielsen	JCP	23	(1955)	329
C_2HF_6N	Bis-trifluoromethylamine	-	G	Ident	Barr	JCS	-	(1955)	2532
		-	G	Assign	Barr	JCS	-	(1955)	4169
$C_2HF_6O_2P$	Bis-trifluoromethyl-phosphinic acid	-	-	gr. freq	Emeleus	JCS	-	(1955)	563
$C_2HF_6O_2As$	Bis-trifluoromethyl-	-	G,S	gr. freq	Emeleus	JCS	-	(1953)	1552
		-	-	gr. freq	Emeleus	JCS	-	(1954)	881
C_2HF_6P	Bis-trifluoromethyl-phosphine	-	-	Ident	Bennett	JCS	-	(1954)	3896
$C_2HF_6PS_2$	Bis-trifluoromethyl-thiophosphine	400-4000	G	Freq, Assign	Nabi	JCS	-	(1959)	3439
C_2HF_6As	Bis-trifluoromethyl-arsine	-	G,S	gr. freq	Emeleus	JCS	-	(1953)	1552
$C_2HI_3O_2$	Triiodoacetic acid	1580-1900	Sol	Freq. I	Bellanato	SA	16	(1960)	1333
C_2H_2	Acetylene	.3-4.9μ	G	Spec	Stewart	PR	13	(1901)	257
		.7-2.5μ	G	Flame temp	Stewart	PR	15	(1902)	306
		.5-4μ	G	Spec	Coblentz	BBS	7	(1911)	243
		.5-5μ	G	Spec	Coblentz	BBS	9	(1913)	81
		2.9-3.2μ	G	Freq	Mexer	JOSA	15	(1927)	257
		2-15μ	G	Mol bands	Levin	JOSA	16	(1928)	137
		7.5μ	G	Spec	Barker	TFS	25	(1929)	912
		.68-.92μ	G	Spec	Badger	PR	35	(1930)	1433
		-	-	Vib	Kettering	PR	36	(1930)	531
		-	-	Rotation	Oldenberg	PR	37	(1931)	1550
		20-33μ	G	Transmission	Strong	PR	37	(1931)	1003
		6.7-33μ	G	Transmission	Strong	PR	37	(1931)	1565
		-	G	Thermo	Badger	JACS	54	(1932)	3523
		-	-	NCA	Olson	JACS	54	(1932)	136
		20.7-152μ	G	Absorption	Strong	PR	42	(1932)	267
		-	-	Spec, Assign, Review	Villars	CR	11	(1932)	369
		-	G	Spec	Weber	PR	40	(1932)	835
		-	G	Thermo	Kassel	JACS	55	(1933)	1351

-	-	Thermo	Mayer	JACS	55	(1933)	37
-	-	Assign	Sutherland	PR	43	(1933)	883
-	-	Freq	Mecke	TFS	30	(1934)	200
-	-	Freq	Randall	PR	45	(1934)	124
-	G	Freq, Anal	Bradley	PR	47	(1935)	914
-	-	NCA	Colby	PR	47	(1935)	388
-	G	Vib	Duncan	JCP	3	(1935)	384
-	G	Thermo	Gordon	JCP	3	(1935)	259
-	-	Quant mech	Wilson	JCP	3	(1935)	276
-	G	Press broadening	Herzberg	PR	50	(1936)	1186
-	-	Normal modes	Childs	JSI	14	(1937)	141
-	-	Quant mech	Glockler	JCP	5	(1937)	813
-	G	FC	Thompson	JCS	-	(1937)	1384
3.3μ	G	CH ext coeff	Williams	JAP	8	(1937)	497
-	-	Thermo	Gordon	JCP	6	(1938)	219
-	-	Quant mech	Wu	JCP	7	(1939)	178
-	-	Spec	Henkin	JCP	8	(1940)	297
-	G	Thermo	Pitzer	CR	27	(1940)	39
-	-	Quant mech	Stitt	JCP	8	(1940)	56
450-4000	G	Spec, Assign	Wu	JCP	8	(1940)	489
-	-	FC	Cleveland	JCP	9	(1941)	390
-	-	FC	Crawford	JCP	9	(1941)	69
-	-	FC	Linnett	TFS	37	(1941)	469
3-7.5μ	G	Freq	Nielsen	PR	59	(1941)	911
-	-	Quant mech	Redlich	JCP	9	(1941)	298
-	-	l-type doubling	Herzberg	RMP	14	(1942)	219
-	-	Freq	Barnes	IEC	15	(1943)	659
-	-	Quant mech	Nielsen	JCP	11	(1943)	140
-	G	Absorp laws	Nielsen	RMP	16	(1944)	307
-	-	FC	Linnett	TFS	41	(1945)	223
-	-	Thermo	Wagman	JRNB	35	(1945)	467
-	-	Freq	Ahonen	JCP	14	(1946)	625
-	-	FC, Bond dist	Gordy	JCP	14	(1946)	305
-	-	FC	Walsh	TFS	42	(1946)	779
-	-	Anal	Halverson	RMP	19	(1947)	87
-	G	Press broadening	Seyfried	IEC	19	(1947)	298
-	-	Bond strength	Walsh	DFS	2	(1947)	18
-	-	FC	Walsh	TFS	43	(1947)	60
-	-	Force field, Interaction	Linnett	TFS	45	(1949)	844
1-5μ	G	Spectrum	Plyler	JRNB	42	(1949)	567
-	-	Thermo	Stamm	JCP	17	(1949)	104
2.5-16μ	G	Spec, Assign	Bell	JCP	18	(1950)	1382

		-	-	Reactivity	Duchesne	JCP	18	(1950)	1120
		4400-8500	G	Freq	Talley	JCP	18	(1950)	1680
		3287	G	I	Calloman	PRS	208	(1951)	341
		1-20μ	G	I	Kelly	JCP	19	(1951)	1595
		-	-	FC	Torkington	PRS	206	(1951)	17
		-	-	FC	Decius	JCP	20	(1952)	511
		-	-	I	Decius	JCP	20	(1952)	1039
		-	-	Freq	El-Sabban	JCP	20	(1952)	1810
		-	-	Freq	Ferigle	JCP	20	(1952)	1928
		-	G	Spec, Struct, Mol const	Herzberg	N	169	(1952)	997
		-	-	FC, Bond dist	Longuet	TFS	48	(1952)	1077
		-	-	Mol consts	Saksena	JCP	20	(1952)	95
		-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
		-	-	Reaction kinetics	Cadle	JCP	21	(1953)	163
		-	-	Theory	Torkington	JCP	21	(1953)	83
		-	G	Reaction study	McCarthy	JCP	22	(1954)	1360
		4092	G	l-type doubling	Wiggins	JCP	22	(1954)	547
		-	G	I, Bond mom	Eggers	JPC	59	(1955)	1124
		-	G	I, Bond mom	Wingfield	JCP	23	(1955)	731
		1900-8500	G	Spec	Allen	JRNB	57	(1956)	213
		-	-	pot fn	Keller	JCP	25	(1956)	175
		2-15μ	G	Spec	Pierson	AC	28	(1956)	1218
		-	-	Spec, Struct	Pliskin	JCP	24	(1956)	482
		3-16μ	G	Mol spec, Mol const	Christensen	PRS	238	(1957)	15
		-	-	Mol distortion	Amat	JMS	2	(1958)	163
		-	-	IR, Bond study	Wilmshurst	JPC	62	(1958)	631
		560-2100	G	Spec	Binder	JACS	81	(1959)	3608
		2800-4000	S	Spec, Assign	Little	JPC	63	(1959)	1616
		-	Sol	H bond	Murshashi	BCSJ	-	(1959)	1001
		3100-3300	Sol	H bond	Shuvalova	OS	6	(1959)	696
		-	Sol	Spec	Jacob	CPR	250	(1960)	1624
		800-2400	Sol	IR	Katritzky	JCS	-	(1960)	1519
		3400-3530	G	Mol struct	Nielsen	JPR	21	(1960)	24
C_2H_2DBr	1-Bromo-1-ethylene-d_1	-	-	Force const, Freq	DeHemptinne	TFS	42	(1946)	5
		-	-	FC	Torkington	PRS	206	(1951)	17
C_2H_2DBr	1-Bromo-2-ethylene-d_1	-	-	FC, Freq	DeHemptinne	TFS	42	(1946)	5
		-	-	FC	Torkington	PRS	206	(1951)	17
$C_2H_2DClO_2$	Chloroacetic acid-d_1	1500-700	G	Spec, Freq assign	Hadzi	SA	12	(1958)	162
		-	-	Assign	Olero	ARS	55B	(1959)	205
C_2H_2DF	Vinyl fluoride-1-d_1	400-3500	G	Assign	Bak	SA	12	(1958)	355

C_2H_2DF	Vinyl fluoride-2-d_1	400-3500	G	Assign	Bak	SA	12	(1958)	355
C_2H_2DFO	Acetyl fluoride-d_1	-	G	Micro spec	Pierce	JCP	31	(1959)	875
$C_2H_2DF_3$	1,1,1-Trifluoroethane-d_1	-	-	Micro spec, Struct, I	Edgell	JACS	79	(1957)	2391
$C_2H_2D_2$	1,1-Ethylene-d_2	-	-	Vib	Manneback	JCP	5	(1937)	989
		-	-	Freq, Assign	Wu	JCP	5	(1937)	392
		-	-	Mol anal	DeHemptinne	JCP	6	(1938)	319
		-	-	Mol anal	Halverson	RMP	19	(1947)	87
		580-3300	G	Spec, Assign	Arnett	JCP	18	(1950)	118
		700-4500	-	Freq, Assign	Lancaster	JCP	19	(1951)	661
		-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
		676-6070	G	Spec, Assign, FC	Crawford	JCP	21	(1953)	678
		600-1400	-	Photo react product	Callear	JCP	24	(1956)	873
$C_2H_2D_2$	cis-1,2-Ethylene-d_2	-	-	Vib	Manneback	JCP	5	(1937)	989
		-	-	Freq assign	Wu	JCP	5	(1937)	392
		-	-	Mol anal	DeHemptinne	JCP	6	(1938)	319
		-	-	Product rule	Halverson	JCP	13	(1945)	533
		-	-	Mol anal	Halverson	RMP	19	(1947)	87
		580-3300	G	Spec, Assign	Arnett	JCP	18	(1950)	118
		-	-	Isomerization	Rabinovitch	JCP	20	(1952)	1807
		843-3056	G	Spec, Assign, FC	Bernstein	JCP	21	(1953)	2188
		-	-	Sum rule	Crawford	JCP	21	(1953)	678
		-	-	Anal	Douglas	JCP	23	(1955)	315
		600-1400	-	Photo chem react, Anal	Callear	JCP	24	(1956)	873
		-	G	Anal, Isomerization	Flanagan	JPC	60	(1956)	724
$C_2H_2D_2$	trans-1,2-Ethylene-d_2	-	-	Vib	Manneback	JCP	5	(1937)	989
		-	-	Freq assign	Wu	JCP	5	(1937)	392
		-	-	Mol anal	DeHemptinne	JCP	6	(1938)	319
		-	-	Product rule	Halverson	JCP	13	(1945)	533
		-	-	Mol anal	Halverson	RMP	19	(1947)	87
		580-3300	G	Spec, Assign	Arnett	JCP	18	(1950)	118
		-	-	Spec	Douglas	JACS	74	(1952)	2486
		-	-	Isomerization	Rabinovitch	JCP	20	(1952)	1807
		-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
		630-5791	G	Spec, Assign, FC	Crawford	JCP	21	(1953)	678
		987	-	Kinetic study, Anal	Douglas	JCP	23	(1955)	315
		600-1400	-	Photo react prod	Callear	JCP	24	(1956)	873
		-	-	Isomerization	Flanagan	JPC	60	(1956)	730

		-	-	Isomerization, Anal	Flanagan	JPC	60 (1956)	124
$C_2H_2D_2Br_2$	1,2-Dibromoethane-d_2	-	-	Assign	Neu	JCP	18 (1950)	1642
$C_2H_2D_2Br_2$	sym-Dibromoethane-d_2	400-3200	S,L,Sol	IR, Assign	Bernstein	JCP	20 (1952)	1227
$C_2H_2D_2Cl_2O_2$	α-, α-Dichloroacetaldehyde hydrate-d_2	600-3000	S	δ_{OH}	Anderson	SA	12 (1958)	233
$C_2H_2D_2N_2O_2$	Diformylhydrazine-d_2	400-3600	G	Spec, Assign	Miyazawa	JCP	24 (1956)	408
$C_2H_2D_2N_2O_2$	Glyoxime-d_2	400-3500	-	Spec, Struct, Freq	Borello	GCI	87 (1957)	615
$C_2H_2D_2O_4$	Formic acid (dimeric)-d_2	625-3800	G	Spec, Assign	Millikan	JACS	80 (1958)	3515
$C_2H_2D_3Br$	Ethyl bromide-d_3	400-4000	G	Spec, Rot isomers	Bak	ACS	12 (1958)	2021
$C_2H_2D_3F$	Ethyl fluoride-d_3	400-4000	G	Spec, Rot isomers	Bak	ACS	12 (1958)	2021
$C_2H_2D_3NO_2$	Glycine-N-O-d_3	-	-	Assign	Nakamura	NKZ	80 (1959)	118
$C_2H_2D_3NO_2$	α-Glycine-d_3	400-1800	S	Assign	Tsuboi	SA	12 (1958)	253
$C_2H_2D_3NO_2$	γ-Glycine-d_3	400-1800	S	Assign	Tsuboi	SA	12 (1958)	253
$C_2H_2D_3NO_2.HCl$	Glycine hydrochloride-d_3	400-1800	S	Assign	Tsuboi	SA	12 (1958)	253
$C_2H_2BrClF_2$	1-Bromo-2-chloro-1,1 difluoroethane	-	-	Freq	Haszeldine	JCS	- (1954)	923
C_2H_2BrClO	Bromoacetyl chloride	-	G,L,S, Sol	Intern rot, Configuration	Mizushima	JPC	56 (1952)	324
		550-300	L,G	IR, Freq, FC, Isomerism	Nakagawa	JCP	20 (1952)	1720
		-	-	Sum and product rule	Mizushima	JCP	21 (1953)	215
		-	L	Freq	Kagarise	JACS	77 (1955)	1377
$C_2H_2BrCl_2NO$	α-Dichloro-N-bromoacetamide	1-15 μ	S,Sol	Spec, Assign, H bridge	Lacher	JACS	74 (1952)	5578
$C_2H_2BrF_2I$	1-Bromo-1,1-difluoro-2 iodoethane	-	-	Freq	Haszeldine	JCS	- (1954)	923
$C_2H_2BrF_2NO$	α-Difluoro-N-bromoacetamide	1-15 μ	S,Sol	Spec, Assign, H bridge	Lacher	JACS	74 (1952)	5578

$C_2H_2BrF_3$	1-Bromo-2,2,2-trifluoro-ethane	3.33-13.93μ	-	Ident	Krogh	JOC	19	(1954)	1124
		300-7000	G	Spec, Assign, Thermo	Nielson	JCP	27	(1957)	891
$C_2H_2Br_2$	1,1-Dibromoethylene	5-20μ	G	Spec, Assign	Thompson	PRS	184	(1945)	21
		-	-	Freq, FC	DeHemptinne	TFS	42	(1946)	5
		-	-	Freq, FC	Sheppard	PRS	196	(1949)	195
		-	-	Quant mech, Assign	Torkington	JCP	17	(1949)	1279
		-	-	FC	Torkington	PRS	206	(1951)	17
		-	-	NCA	Dowling	PR	100	(1955)	1267
		184-3108	G	Freq, Assign	Mann	JCP	23	(1955)	2122
		-	Sol	Freq	Potts	SA	15	(1959)	679
$C_2H_2Br_2$	cis-1,2-Dibromoethylene	-	-	Quant mech, Assign	Sheppard	PRS	196	(1949)	195
		-	-	Freq, FC	Torkington	JCP	17	(1949)	1279
$C_2H_2Br_2$	trans-1,2-Dibromoethylene	-	Sol	Freq	Potts	SA	15	(1959)	679
$C_2H_2Br_2$	(cis & trans)-1,2-Dibromoethylene	400-3400	L,G	Spec, Assign, NCA, Thermo	Dowling	JCP	26	(1957)	233
$C_2H_2Br_2F_2$	1,2-Dibromo-1,1-difluoroethane	-	L,G,S	IR, Freq, Rot isomers	Kagarise	JCP	24	(1956)	1264
$C_2H_2Br_2N_2O_2$	Dibromoglyoxime	400-3500	-	Spec, Freq, Struct	Borello	GCI	87	(1957)	615
$C_2H_2Br_2O$	Bromoacetyl bromide	-	G	Freq	Hartwell	JCS	-	(1948)	1436
		550-3000	L,G	IR, Freq, FC, Isomerism	Nakagawa	JCP	20	(1952)	1720
		-	-	Sum rule	Mizushima	JCP	21	(1953)	215
$C_2H_2Br_2O_2$	Dibromoacetic acid	5.5-6.5μ	Sol	Ident	Sawicki	AC	31	(1959)	523
		1580-1900	Sol	Freq, I	Bellanato	SA	16	(1960)	1333
$C_2H_2Br_4$	Tetrabromoethane	.8-3μ	L	Spec, Freq	Spence	PR	34	(1929)	730
		-	L	I	Shearin	PR	35	(1930)	973
		-	-	FC	Linnett	TFS	41	(1945)	223
		24-40μ	-	Freq	Plyler	JCP	16	(1948)	1008
		-	-	I, Isotopic effects	Kagarise	AC	23	(1951)	1048
		-	L	IR, Freq, Rot isomers	Kagarise	TFS	48	(1952)	394
		300-3000	S,L	Rot isomers, Spec, I	Malherbe	JACS	74	(1952)	1859
		2-15μ	L,S	Spec, Mol anal	Kagarise	JCP	23	(1955)	207
		450-3000	L,S	Freq, Rot isomers	Hashimoto	JCP	24	(1956)	172
		2-38μ	L,S	Spec, Assign, Rot isomers	Kagarise	JCP	24	(1956)	300
C_2H_2ClF	1-Chloro-1 fluoro-ethylene	3-20μ	G	Spec, Assign	Torkington	TFS	41	(1945)	236
		-	-	FC	Torkington	PRS	206	(1951)	17

		1.6-52 μ	G	Spec, Assign, Thermo	Mann	JCP	23	(1955)	2122
$C_2H_2ClF_3$	1-Chloro-2,2,2-trifluoro-ethane	2-38 μ	G,L	IR, Spect, Assign, Thermo	Nielsen	JCP	21	(1953)	1060
		150-450	G	Spec	Catalano	JPC	62	(1958)	838
C_2H_2ClN	Chloroacetonitrile	4-4.5 μ	L	Freq assign	Barr	JCS	-	(1956)	3428
		2200-2300	G,Sol	Freq, Struct	Jesson	SA	13	(1958)	217
		-	G	Micro spec, Mol consts	Graybeal	JCP	32	(1960)	1258
$C_2H_2ClO_2$	Chloroacetate ion	-	-	Assign	Nakamura	NKZ	79	(1958)	1420
$C_2H_2Cl_2$	1,1-Dichloroethylene	-	-	Freq	Bonino	TFS	25	(1929)	876
		750-900	-	Review, Spec	Thompson	JCS	-	(1944)	183
		500-2000	G,L	Spec, Assign	Thompson	PRS	184	(1945)	21
		-	-	Freq, FC	Sheppard	PRS	196	(1949)	195
		-	-	Quant mech	Torkington	JCP	17	(1949)	1026
		-	-	Quant mech, Assign	Torkington	JCP	17	(1949)	1279
		-	-	FC	Torkington	PRS	206	(1951)	17
		-	-	IR, Assign	Joyner	JCP	20	(1952)	302
		-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
		299-3130	G	Freq, Assign	Mann	JCP	23	(1955)	2122
		-	-	FC, Freq	Enomoto	NKZ	79	(1958)	1343
		700-300	G	Assign	Evans	JCP	30	(1959)	934
		-	Sol	Freq, Spec	Potts	SA	15	(1959)	679
$C_2H_2Cl_2$	cis-1,2-Dichloroethylene	1-25 μ	L	Spec	Smith	JACS	48	(1926)	1512
		.8-3 μ	L	Spec	Spence	PR	34	(1929)	730
		2-25 μ	G	Spec, IR, Assign	Wu	PR	46	(1934)	465
		-	-	Freq assign	Wu	JCP	5	(1937)	392
		-	-	Thermo	Wood	JACS	63	(1941)	1650
		-	-	FC	Linnett	TFS	41	(1945)	223
		-	-	FC	Pitzer	JCP	14	(1946)	586
		20-37 μ	L	Freq	Hyde	JCP	16	(1948)	744
		3500-400	G,L	Freq assign	Bernstein	JCP	17	(1949)	556
		-	-	Freq, FC	Sheppard	PRS	196	(1949)	195
		-	-	Quant mech, Assign	Torkington	JCP	17	(1949)	1279
		-	-	FC	Torkington	PRS	206	(1951)	17
		15-25 μ	L	Solvent	Marrison	JSI	29	(1952)	233
		-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
		-	-	Sum & product rule	Mizushima	JCP	21	(1953)	215
		-	G	Freq	O'Loane	JCP	21	(1953)	669
		-	-	Interact theory	Torkington	JCP	21	(1953)	83
		-	-	Assign, Thermo	Pitzer	JACS	76	(1954)	1493
		-	-	NCA	Dowling	PR	100	(1955)	1267

		-	-	Vib amp theory	Morino	JCP	23	(1955)	737
		-	-	Vib, Vap liq shift	Benson	JCP	27	(1957)	1164
		-	G	Micro spec	Shimizu	JPSJ	15	(1960)	646
$C_2H_2Cl_2$	trans-1,2-Dichloroethylene	1-2.5μ	L	Spec	Smith	JACS	48	(1926)	1512
		.8-3μ	L	Spec	Spence	PR	34	(1929)	730
		2-25μ	G	Spec, IR, Assign	Wu	PR	46	(1934)	465
		-	-	Freq assign	Wu	JCP	5	(1937)	392
		-	-	Hindered rotat	Langseth	JCP	8	(1940)	415
		-	-	Thermo	Wood	JACS	63	(1941)	1650
		-	-	FC	Linnett	TFS	41	(1945)	223
		-	-	FC	Pitzer	JCP	14	(1946)	586
		-	-	Mol anal	Halverson	RMP	19	(1947)	87
		3500-400	G,L	Freq, Assign	Bernstein	JCP	17	(1949)	556
		-	L	IR	Kreusch	PR	75	(1949)	334
		-	-	Freq, FC	Sheppard	PRS	196	(1949)	195
		-	-	Quant mech, Assign	Torkington	JCP	17	(1949)	1279
		-	-	FC	Torkington	PRS	206	(1951)	17
		15-25μ	L	Solvent	Marrison	JSI	29	(1952)	233
		960-850	G,L	Spec	Ramsay	JACS	74	(1952)	72
		-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
		-	-	Sum & product rule	Mizushima	JCP	21	(1953)	215
		-	G	Freq	O'Loane	JCP	21	(1953)	669
		-	-	Interact theory	Torkington	JCP	21	(1953)	83
		140-410	L,G	Spec, Assign, I, Thermo	Pitzer	JACS	76	(1954)	1493
		-	-	NCA	Dowling	PR	100	(1955)	1267
		-	-	Thermo	Luft	JPC	59	(1955)	572
		-	-	Vib	Morino	JCP	23	(1955)	737
		-	-	Vib, Vap liq shift	Benson	JCP	27	(1957)	1164
		-	Sol	Freq, Spec	Potts	SA	15	(1959)	679
$C_2H_2Cl_2N_2O_2$	Dichloroglyoxime	400-3500	--	Spec, Struct, Freq	Borello	GCI	87	(1957)	615
$C_2H_2Cl_2O$	Chloroacetyl chloride	-	-	FC	Linnett	TFS	41	(1945)	223
		-	G	Freq	Hartwell	JCS	-	(1948)	1436
		-	G,L,S, Sol	Struct	Mizushima	JPC	56	(1952)	324
		550-3000	L,G	IR, Freq, FC, Isomerism	Nakagawa	JCP	20	(1952)	1720
		-	-	Sum & product rule	Mizushima	JCP	21	(1953)	215
		-	-	Freq	Johannesen	JRNB	53	(1954)	197
		-	L	Freq	Kagarise	JACS	77	(1955)	1377
		1700-1800	G,Sol	Freq, Substitution	Bellamy	JCS	-	(1958)	3465

$C_2H_2Cl_2O_2$	Chloromethyl chloroformate	7-34 μ	-	Photo chlorination	Brandy	JCP	21	(1953)	1049
$C_2H_2Cl_2O_2$	Dichloroacetic acid	2-8 μ	Sol	Spec, Freq, Assign	Bennett	JACS	49	(1927)	50
		1300-2000	Sol	Spec, Assoc	Gillette	JACS	58	(1936)	1143
		-	Sol	Freq & dissociation const	Goulden	SA	6	(1954)	129
		2498-3529	Sol	Freq, Assoc	Harris	JACS	76	(1954)	1419
		-	Sol,L	Freq	Bratoz	SA	8	(1956)	249
		-	Sol	Freq & dissociation const	Bavin	CJC	35	(1957)	1555
		400-4000	Sol,L	Spec, Assign	Jorge	ARS	53B	(1957)	339
		1500-700	C	Spec, Freq, Assign	Hadzi	SA	12	(1958)	162
		1580-1900	Sol	Freq, I	Bellanato	SA	16	(1960)	1333
$C_2H_2Cl_3NO$	Trichloroacetamide	2.7-3.7 μ	S	H bond	Bushwell	JACS	62	(1940)	2759
		700-3500	S	IR, Struct, Vib	Kuratani	BCSJ	25	(1952)	258
		3000-3500	Sol	Spec	Davies	JCS	-	(1954)	2374
		-	Sol	Freq, I	Brown	JPC	63	(1959)	1324
$C_2H_2Cl_3Si$	Vinyltrichlorosilane	2-35 μ	L,G	Spec, Assign	Shull	JCP	24	(1956)	147
$C_2H_2Cl_4$	1,1,1,2-Tetrachloroethane	-	-	Thermo	Mizushima	JCP	17	(1949)	591
		2-38 μ	G,L	Spec, Assign, Thermo, I	Nielsen	JOSA	43	(1953)	1071
		3-35 μ	L	Spec, Assign	Allen	CJC	32	(1954)	1124
		50-125 μ	L	Spec	Plyler	JRNB	56	(1956)	149
		-	-	Freq	Wilmshurst	CJC	35	(1957)	937
$C_2H_2Cl_4$	1,1,2,2-Tetrachloroethane	2-6.5 μ	L	Spec	Daniels	JACS	47	(1925)	2856
		1-2.5 μ	L	Spec	Smith	JACS	48	(1926)	1512
		-	-	Freq, Absorp coeff	Bonino	TFS	25	(1929)	876
		.8-3 μ	L	Spec, Freq	Spence	PR	34	(1929)	730
		-	L	I	Shearin	PR	35	(1930)	973
		-	-	Hindered rot	Langseth	JCP	8	(1940)	410
		-	-	Hindered rot	Langseth	JCP	8	(1940)	415
		-	-	FC	Linnett	TFS	41	(1945)	223
		500-1500	L	Spec	Thompson	PRS	184	(1945)	21
		-	-	Freq	Chulanovskii	IANS	12	(1948)	628
		22-39 μ	L	Freq	Plyler	JCP	17	(1949)	218
		-	-	Rot isomerism	Sheppard	JCP	18	(1950)	145
		-	-	I, Isotopic effect	Kagarise	AC	23	(1951)	1048
		-	G	Rot isomerism, Thermo	Powling	JACS	73	(1951)	1815
		-	L	IR, Rot isomerism	Kagarise	TFS	48	(1952)	394
		8-14.5 μ	Sol	Table, Freq	Urone	AC	24	(1952)	626
		650-1300	Sol	Anal	Bernstein	AC	25	(1953)	139
		-	L	Anal	Semeluk	JACS	76	(1954)	3793

		1160-2998	Sol	H bond, I, Shift	Halpern	JACS	77	(1955)	4472
		545-2990	G,L,Sol	IR, Assign, FC	Naito	JCP	23	(1955)	1907
		450-3000	L,S	Freq, Rot isomerism	Hashimoto	JCP	24	(1956)	172
		2-38μ	S,L	Spec, Assign, Rot isomerism	Kagarise	JCP	24	(1956)	300
		2-25μ	L	IR, Assign, FC	Zietlow	JCP	24	(1956)	142
$C_2H_2F_2$	1,1,-Difluoroethene	3-20μ	G	Spec, Assign	Torkington	TFS	41	(1945)	236
		760-970	G	Spec, Mol const	Cole	PRS	200	(1949)	10
		-	L	Freq	Edgell	JCP	17	(1949)	740
		-	-	Freq, FC	Sheppard	PRS	196	(1949)	195
		-	-	Quant mech, Assign	Torkington	JCP	17	(1949)	1279
		-	L	NCA	Edgell	JCP	18	(1950)	892
		2-38μ	G	IR, Assign	Smith	JCP	18	(1950)	326
		-	-	FC	Torkington	PRS	206	(1951)	17
		-	-	Freq	El-Sabban	JCP	20	(1952)	1810
		-	-	FC, Vib	Morino	JCP	20	(1952)	726
		-	-	Vib amplitude theory	Morino	JCP	21	(1953)	1927
		-	-	Ind of purity	Haszeldine	JCS	-	(1954)	923
		18000-38000 Mc/sec	G	Microwave	Solimene	JCP	22	(1954)	2042
		438-3100	G	Freq, Assign	Mann	JCP	23	(1955)	2122
		-	-	Micro spec, Mol parameters	Edgell	JACS	79	(1957)	2691
		-	Sol	Freq, Spec	Potts	SA	15	(1959)	679
$C_2H_2F_2O_2$	Difluoroacetic acid	5.5-6.5μ	Sol	Ident	Sawicki	AC	31	(1959)	523
		1580-1900	Sol	Freq, I	Bellanato	SA	16	(1960)	1333
$C_2H_2F_3I$	1-Iodo-2,2,2,-trifluoroethane	-	L	Freq, Phys prop	Tiers	JACS	75	(1953)	5978
$C_2H_2F_3NO$	Trifluoroacetamide	-	Sol	Freq	Bender	JACS	75	(1953)	5986
		-	Sol	I, Freq	Brown	JPC	63	(1959)	1324
$C_2H_2F_3NO_2$	2,2,2-Trifluoroethyl	-	G,L,Sol	Vib, Assign, Rot isomerism	Haszeldine	JCS	-	(1955)	4172
$C_2H_2F_4$	1,1,1,2-Tetrafluoroethane	50-420	S	Spec	Danti	JCP	30	(1959)	582
$C_2H_2F_4$	1,1,2,2-Tetrafluoroethane	2-15μ	G	Spec, Anal	Lacher	TFS	52	(1956)	1500
		350-5000	G	Spec, Freq, Rot	Klaboe	JCP	32	(1960)	899

$C_2H_2F_6O_5As_2$	Pyrotrifluoromethylarsonic acid	-	-	Freq	Emeleus	JCS	- (1954)	881
$C_2H_2I_2$	1,1-Diiodoethylene	-	-	FC	Torkington	PRS	206(1951)	17
$C_2H_2I_2$	cis-1,2-Diiodoethylene	-	-	Freq, FC	Sheppard	PRS	196 (1949)	195
		400-4000	L	IR, Assign	Miller	JCP	23 (1955)	44
$C_2H_2I_2$	trans-1,2-Diiodoethylene	-	-	Freq, FC	Sheppard	PRS	196 (1949)	195
		885-955	Sol	Spec band	Miller	JACS	73 (1951)	2376
		400-4000	Sol	IR, Assign	Miller	JCP	23 (1955)	44
$C_2H_2I_2O_2$	Diiodoacetic acid	1580-1900	Sol	I, Freq	Bellanato	SA	16 (1960)	1333
$C_2H_2N_4$	S-Tetrazine	-	G,S,L, sol	Assign	Spencer	DA	19 (1959)	3152
C_2H_2O	Ketene	-	-	Quant mech	Wilson	JCP	2 (1934)	432
		740-3500	G	Freq	Gershinowitz	JCP	5 (1937)	500
		-	G	Freq, FC	Thompson	JCS	- (1937)	1389
		-	G	FC, Bond dist	Thompson	JCS	- (1937)	1396
		2-15μ	L	Struct, Spec	Whiffen	JCS	- (1946)	1005
		2.5-25μ	G	Spec, Assign	Halverson	JCP	15 (1947)	552
		2.5-25μ	G	Spec, Assign	Harp	JCP	15 (1947)	778
		-	-	FC	Walsh	TFS	43 (1947)	60
		-	-	FC	Walsh	TFS	43 (1947)	158
		2-20μ	-	Freq assign, Thermo	Drayton	JCS	- (1948)	1416
		-	-	Decomposition	Simard	JCP	16 (1948)	836
		450-3600	G	Spec, Review	Williams	RSI	19 (1948)	135
		-	-	Spec	Fletcher	JCP	19 (1951)	1431
		500-1200	G	Freq, Assign, Thermo	Bak	JCP	22 (1954)	1050
		-	G	Ident	Das	JACS	76 (1954)	6271
		-	-	Anal	Margoshes	JCP	22 (1954)	381
		-	-	Freq, Bond dist	Mueller	JACS	76 (1954)	330
		500-3200	G	Mol struct, Spec	Arendale	JCP	24 (1956)	581
		450-3600	-	Spec, Assign	Arendale	JCP	26 (1957)	793
		3-5.5μ	-	A_o & B_o values	Butter	SA	13 (1958)	223
$C_2^{12}H_2O^{16}$	Ketene-(isotopic)	-	G	Microwave	Johnson	JCP	20 (1952)	687
$C_2H_2O_2$	Oxalaldehyde	1-15μ	G	Spec, Assign	Thompson	TFS	36 (1940)	988
		-	-	Freq, Assign	Gaydon	TFS	43 (1947)	36
		-	-	FC	Walsh	TFS	43 (1947)	60
		-	-	Freq, FC	Walsh	TFS	43 (1947)	158

		700-3600	G	Spec, Mol const, Config	Cole	PRS	200 (1949)	10
		-	G	Anal	Badin	JACS	72 (1950)	1550
		-	-	Mol anal	Brand	TFS	50 (1954)	431
		127-2836	G	Assign	Brand	JCS	- (1954)	2970
		-	-	Bond dist, Freq	Margoshes	JCP	22 (1954)	381
$C_2H_2O_4$	Oxalic acid	-	-	H bond, Dichroism	Glatt	JCP	15 (1947)	880
		680-1500	S	Spec, Assign	Hadzi	PRS	216 (1953)	247
		-	S	Spec	Kalkwarf	AC	26 (1954)	191
		-	-	H bond	Lippincott	JCP	23 (1955)	1099
$C_2H_2O_4 \cdot 2H_2O$	Oxalic acid dihydrate	700-4000	S	Table freq	Flett	JCS	- (1951)	962
		-	-	H bond, Distance vs freq	Rundle	JCP	20 (1952)	1487
		-	S	H bond	Pimental	JCP	24 (1956)	639
C_2H_3D	Ethylene-d_1	-	-	Modes of vib	Manneback	JCP	5 (1937)	989
		-	-	Mol anal	DeHemptinne	JCP	6 (1938)	319
		-	-	Mol anal	Halverson	RMP	19 (1947)	87
		580-3300	G	Spec, Assign	Arnett	JCP	18 (1950)	118
		765-1121	-	Absorption freq	Courtoy	JCP	19 (1951)	137
		-	-	Sum rule	Bernstein	JCP	21 (1953)	2188
		809-3063	G	Freq, Assign, FC	Crawford	JCP	21 (1953)	678
$C_2H_3DBr_2$	1,2-Dibromoethane-d_1	-	-	Isomer	Neu	JCP	18 (1950)	1642
$C_2H_3DClNO_2$	Chloroacetohydroxamic acid-O-d_1	700-4000	S,Sol	Spec, Assign	Hadzi	SA	10 (1958)	38
C_2H_3DO	Acetaldehyde-d_1	-	G	Microwave	Lin	JCP	24 (1956)	631
		3-5μ	S	Freq, Assign	Schneider	TFS	52 (1956)	13
$C_2H_3DO_2$	Acetic acid-d_1	1-16μ	G	Spec, H bond	Herman	JCP	6 (1938)	534
		700-1900	G	Freq	Herman	JCP	7 (1939)	460
		2.8-5.0μ	Sol	Spec, H bond	Wall	JACS	61 (1939)	2812
		-	G	H bond	Sutherland	TFS	36 (1940)	889
		-	-	Struct	Fuson	PR	91 (1953)	234
		2070-2635	Sol	Spec, Struct	Fuson	JOSA	43 (1953)	1102
		500-1500	L,Sol	IR, Spec	Hadzi	PRS	216 (1953)	247
		3-5μ	L	Spec	Potter	JPC	58 (1954)	1040
		2-25μ	G	Spec, Assign	Weltner	JACS	77 (1955)	3941
		-	L	Freq	Bratoz	SA	8 (1956)	249
		2-25μ	G	Spec, Assign	Wilmshurst	JCP	25 (1956)	1171
		1500-700	G	Spec, Freq, Assign	Hadzi	SA	12 (1958)	162

$C_2H_3D_2Br$	Ethyl bromide-d_2	400-4000	G	Spec, Rot iso	Bak	ACS	12 (1958)	2021
$C_2H_3D_2F$	Ethyl fluoride-d_2	400-4000	G	Spec, Rot iso	Bak	ACS	12 (1958)	2021
$C_2H_3D_2NO_2$	Glycine-c-d_2	-	-	Ident	Nakamura	NKZ	80 (1959)	118
C_2H_3Br	Bromoethylene	-	-	FC	Linnett	TFS	41 (1945)	223
		5-20 μ	G	Spec, Assign	Thompson	PRS	184 (1945)	21
		-	-	FC, Freq	DeHemptinne	TFS	42 (1946)	5
		-	-	Freq, FC	Pitzer	JCP	14 (1946)	586
		-	G	Thermo	Richards	JCS	- (1948)	1931
		-	-	Freq, FC	Sheppard	PRS	196 (1949)	195
		-	-	Quant mech, Assign	Torkington	JCP	17 (1949)	1279
		-	-	FC	Torkington	PRS	206 (1951)	17
		-	L	Group freq	Jacobs	JACS	75 (1953)	1314
		-	-	Sum rule	Bernstein	JCP	24 (1956)	910
		-	-	Sum rule	Bernstein	CJC	34 (1956)	617
		-	G	Spec, Thermo	Gullikson	JMS	1 (1957)	158
		-	Sol	Spec, Group freq	Potts	SA	15 (1959)	679
		-	-	NCA	Scherer	JCP	30 (1959)	1527
$C_2H_3BrClNO$	α-Chloro-N-bromo-acetamide	1-15 μ	S,Sol	Spec, Assign	Lacher	JACS	74 (1952)	5578
C_2H_3BrO	Acetyl bromide	-	-	FC	Linnett	TFS	41 (1945)	223
		-	G,Sol	Freq	O'Sullivan	JCS	- (1957)	4144
		-	G	Microwave spec	Krisher	JCP	33 (1960)	1237
$C_2H_3BrO_2$	α-Bromoacetic acid	1300-2000	Sol	Spec	Gillette	JACS	58 (1936)	1143
		-	Sol	Freq	Goulden	SA	6 (1954)	129
		5.5-6.5 μ	Sol	Ident	Sawicki	AC	31 (1959)	523
		1580-1900	Sol	Freq	Bellanato	SA	16 (1960)	1333
$C_2H_3Br_3$	1,1,2-Tribromoethane	300-3020	L,S	Spec, I, Iso	Malherbe	JACS	74 (1952)	1859
		-	L	Spec	Plyler	JRNB	56 (1956)	149
$C_2H_3Br_3O_2$	Bromal hydrate	2.6-3 μ	Sol	Spec	Davies	TFS	36 (1940)	333
		400-3800	S,Sol	Spec	Novak	SA	16 (1960)	521
C_2H_3Cl	Vinyl chloride	-	L	Freq, Assign	West	TFS	27 (1931)	145
		2-25 μ	G	Freq	Wu	PR	46 (1934)	465
		800-1000	-	Spec	Thompson	JCS	- (1944)	183
		-	-	FC	Linnett	TFS	41 (1945)	223
		3-20 μ	G	Spec, Assign	Thompson	PRS	184 (1945)	21
		-	-	Freq, FC	Pitzer	JCP	14 (1946)	586
		-	G	Thermo	Richards	JCS	- (1948)	1931

		8-15 μ	G	Spec, Assign, Mol consts	Cole	PRS	200 (1949)	10
		-	-	Freq, FC	Sheppard	PRS	196 (1949)	195
		-	-	Assign, Quant mech	Torkington	JCP	17 (1949)	1279
		-	-	FC	Torkington	PRS	206 (1951)	17
		-	-	Sum rule	Bernstein	JCP	21 (1953)	2188
		-	G	Ident	Semeluk	JACS	76 (1954)	3793
		-	-	Vib sum rule	Bernstein	JCP	24 (1956)	910
		2-15 μ	G	Spec	Lacher	JPC	60 (1956)	492
		2-15 μ	G	Spec	Pierson	AC	28 (1956)	1218
		2-34 μ	G	Spec, Assign, Thermo	Gullikson	JMS	1 (1957)	158
		-	-	Group freq	Bellamy	JCS	- (1958)	2463
		400-4000	G	Freq, Assign, NCA, FC	Narita	JCP	31 (1959)	1151
		-	Sol	Freq, Spec	Potts	SA	15 (1959)	679
		-	G	Microwave spec, Mol const	Kivelson	JCP	32 (1960)	205
$C_2H_3ClF_2$	1-Chloro-1,1-difluoro-ethane	2-38 μ	G	Spec, Freq, Assign, Thermo	Smith	JCP	20 (1952)	473
C_2H_3ClO	Acetyl chloride	52 μ	L	Total absorption	Hollangel	PR	11 (1918)	505
		-	-	FC	Linnett	TFS	41 (1945)	223
		-	-	FC	Walsh	TFS	43 (1947)	158
		-	G	Absorption	Hartwell	JCS	- (1948)	1436
		2-15 μ	-	Freq, Struct anal	Rasmussen	JACS	71 (1949)	1073
		1700	Sol	Vibration, I	Richards	TFS	45 (1949)	874
		-	L	Spec, Assign	Sheppard	TFS	45 (1949)	693
		1805	-	Freq, I	Barrow	JCP	21 (1953)	2008
		-	Sol	I	Hirota	BCSJ	27 (1954)	295
		-	-	Rotational barrier theory	Luft	JCP	22 (1954)	1814
		-	-	Freq	Kagarise	JACS	77 (1955)	1377
		-	G	Microwave spec	Sinnott	BAPS	2 (1956)	198
		-	G,Sol	Freq	O'Sullivan	JCS	- (1957)	4144
		1700-1800	G	Comparison	Bellamy	JCS	- (1958)	3465
		1650-1850	G,L,Sol	Solvent effect	Bellamy	TFS	55 (1959)	14
		-	-	Freq	Horak	TEL	3 (1959)	19
		-	Sol	Band freq	Baker	JACS	82 (1960)	1923
C_2H_3ClO	Chloroacetaldehyde	1700-1800	G	Comparison, Freq	Bellamy	JCS	- (1958)	3468
C_2H_3ClOS	Methylmercaptocarbonyl chloride	-	Sol	Band freq	Baker	JACS	82 (1960)	1923
$C_2H_3ClO_2$	Chloroacetic acid	2-8 μ	Sol	Spec, Assign	Bennett	JACS	49 (1927)	50

		1300-2000	Sol	Spec	Gillette	JACS	58	(1936)	1143
		2.8-6.5 μ	L	Dissociation	Plyler	PR	49	(1936)	868
		1794	G	Freq	Hartwell	JCS	-	(1948)	1436
		700-4000	S,L,Sol	Freq	Flett	JCS	-	(1951)	962
		-	Sol	Freq	Goulden	SA	6	(1954)	129
		2551-3539	Sol	Band freq	Harris	JACS	76	(1954)	1419
		-	-	Freq	Bratoz	SA	8	(1956)	249
		-	Sol	Con. of ν_{OH} with pK value	Bavin	CJC	35	(1957)	1555
		200-4000	S	Freq, Assign, Struct	Barcelo	JCP	28	(1958)	1230
		-	-	Spec, Freq	Barcelo	ARS	54B	(1958)	5
		1500-700	G	Spec, Freq, Assign	Hadzi	SA	12	(1958)	162
		-	-	Assign, Struct	Nakamura	NKZ	80	(1959)	225
		-	-	Assign	O'lero	ARS	55B	(1959)	205
		1580-1900	Sol	Freq, I	Ballamato	SA	16	(1960)	1333
$C_2H_3ClO_2$	Methyl chloroformate	14.37 μ	-	Photo chlorination study	Brandy	JCP	21	(1953)	1049
		-	Sol	Struct, Dissociation	Hales	JCS	-	(1957)	618
		-	Sol	Freq, I	Thompson	SA	13	(1958)	236
		800-1500	Sol	Assign	Katritzky	SA	16	(1960)	954
		-	-	Band charact, Assign	Katritzky	SA	16	(1960)	964
		-	S	Band freq	Ory	SA	16	(1960)	1488
$C_2H_3ClO_2$	Methoxycarbonyl chloride	-	Sol	Band freq	Baker	JACS	82	(1960)	1923
$C_2H_3Cl_2F$	1,1-Dichloro-1-fluoro-ethane	2-38 μ	G	Spec, Freq, Assign, Thermo	Smith	JCP	20	(1952)	473
$C_2H_3Cl_2NO$	Dichloroacetamide	-	Sol	Freq, I	Brown	JPC	63	(1959)	1324
$C_2H_3Cl_2O_4P$	2,2-Dichloro-1-oxoethyl-phosphonic acid	-	-	Freq	Barthel	JACS	77	(1955)	2424
$C_2H_3Cl_2O_4P$	2,2-Dichlorovinyldiacid phosphate	-	-	Ident, Freq	Barthel	JACS	77	(1955)	2424
$C_2H_3Cl_3$	1,1,1-Trichloroethane	-	-	Assign	Rubin	JACS	66	(1944)	279
		20-37 μ	G	Absorption freq	Hyde	JCP	16	(1948)	744
		700-3000	G,L	IR, Freq	Karplus	JCP	18	(1950)	910
		400-5000	G,L	IR, Spec, Thermo, FC	El-Sabban	JCP	19	(1951)	855
		1.6-20 μ	G,L	Spec, Assign	Venkateswarlu	JCP	19	(1951)	298
		-	-	Assign	El-Sabban	JCP	20	(1952)	1810
		2-38 μ	L,G	Spec, Freq, Assign, Thermo	Smith	JCP	20	(1952)	473
		8-14.5 μ	Sol	Band Freq	Urone	AC	24	(1952)	626

		250-400	G	Freq	Venkateswarlu	JCP	20	(1952)	1810
		130-430	G	Spec, Assign, Thermo	Pitzer	JACS	75	(1953)	2219
		-	-	Assign, Freq	Tobin	JACS	75	(1953)	1788
		3-25 μ	L	IR, Spec, Assign	Allen	CJC	32	(1954)	1124
		-	-	Pot barrier	Bak	JCP	24	(1956)	918
		500-3000	-	Freq	Bellamy	JCS	-	(1956)	2753
		-	L,Sol	Dielectric const and losses	Holland	JACS	78	(1956)	20
$C_2^{12}H_3Cl_3^{35}$	1,1,1-Trichloroethane (isotopic)	-	-	Microwave	Ghosh	JCP	20	(1952)	605
$C_2H_3Cl_3$	1,1,2-Trichloroethane	0.8-3 μ	L	Spec, Freq	Spence	PR	34	(1929)	730
		-	-	Overtone I	Shearin	PR	35	(1930)	973
		-	-	Rotational iso	Sheppard	JCP	18	(1950)	145
		-	G	Rot iso, Thermo	Powling	JACS	73	(1951)	1815
		300-3000	S,L,G	Spec, I, Iso, Temp effect	Malhevbe	JACS	74	(1952)	1859
		8-14.5 μ	Sol	Band freq	Urone	AC	24	(1952)	626
		400-3000	S,L,G, Sol	Freq, Rot iso	Kuratani	JCP	22	(1954)	1403
$C_2H_3Cl_3O$	2,2,2-Trichloroethanol	-	Sol	Spec, H bond	Haszeldine	JCS	-	(1953)	1757
		3100-3550	Sol	H bond	Lund	ACS	12	(1958)	298
		-	L,Sol	H bond	Reeves	CJC	38	(1960)	1249
$C_2H_3Cl_3O_2$	Chloral hydrate	2.6-15 μ	Sol	Spec	Davies	TFS	36	(1940)	333
		2.7-6 μ	S,Sol	Spec	Davies	TFS	36	(1940)	1114
		850-1950	-	Spec	Barnes	IEC	15	(1943)	659
		600-3000	-	Freq	Anderson	SA	12	(1958)	233
		400-3800	S,Sol	Spec, Freq, IR	Novak	SA	16	(1960)	521
$C_2H_3Cl_3O_3$	Trichloroacetic acid hydrate	2.7-6 μ	S,Sol	Spec	Davies	TFS	36	(1940)	1114
$C_2H_3Cl_3Si$	1-Trichlorosilylethylene	-	Sol	Group freq, Spec	Potts	SA	15	(1959)	679
$C_2H_3Cl_3Si$	Vinyltrichlorosilane	2-35 μ	L,G	IR, Assign	Shull	JCP	24	(1956)	147
C_2H_3F	1-Fluoroethylene	3-20 μ	G	Spec, Assign	Torkington	TFS	41	(1945)	236
		-	-	Freq, FC	Pitzer	JCP	14	(1946)	586
		9-12 μ	G	Spec, Mol consts	Cole	PRS	200	(1949)	10
		-	-	Freq, FC	Sheppard	PRS	196	(1949)	195
		-	-	Assign, Quant mech	Torkington	JCP	17	(1949)	1279

		-	-	Ident	Roal	JCS	-	(1950)	1596
		-	-	FC	Torkington	PRS	206	(1951)	17
		-	-	Vib sum rule	Bernstein	JCP	24	(1956)	910
		400-3500	G	Assign	Bak	SA	12	(1958)	355
		-	-	Struct, Mol consts	Bak	SA	13	(1958)	120
		-	Sol	Group freq, Spec	Potts	SA	15	(1959)	679
		-	-	Assign, NCA	Scherer	JCP	31	(1959)	1691
$C^{12}C^{13}H_3F$	Vinyl fluoride (isotopic)	-	-	Parameters calc	Morgan	JCP	30	(1959)	1025
$C^{13}C^{12}H_3F$	Vinyl fluoride (isotopic)	-	-	Parameters calc	Morgan	JCP	30	(1959)	1025
$C_2^{12}H_3F$	Vinyl fluoride (isotopic)	-	-	Parameters calc	Morgan	JCP	30	(1959)	1025
C_2H_3FO	Acetyl fluoride	-	-	Rot barrier theory	Luft	JCP	22	(1954)	1814
		-	L	Freq	Kagarise	JACS	77	(1956)	1377
		-	G	Microwave spec	Pierce	BAPS	2	(1956)	198
		-	G, Sol	C=O band study	O'sullivan	JCS	-	(1957)	4144
		-	G	Microwave spec, Mol consts, Struct	Pierce	JCP	31	(1959)	875
$C_2H_3FO_2$	Fluoroacetic acid	1580-1900	Sol	Freq, I	Ballenato	SA	16	(1960)	1333
$C_2H_3F_3$	1,1,1-Trifluoroethane	-	-	Bond distance	Bernstein	JCP	16	(1948)	30
		-	-	Moments of inertia	Edgell	JCP	16	(1948)	1002
		500-3200	G	Freq, Assign, Spec	Thompson	JCS	-	(1948)	1428
		-	-	Microwave	Dailey	PR	75	(1949)	1319
		-	-	Thermo	Blade	JCP	18	(1950)	630
		0.7-19μ	G	Spec, Assign	Cowan	JCP	18	(1950)	1538
		300	G	Internal rotational barrier	Gutowsky	JCP	18	(1950)	1297
		2-23μ	G	IR, Spec, Assign	Nielsen	JCP	18	(1950)	1471
		-	-	Microwave	Minden	PR	82	(1951)	338
		-	-	Freq	El-Sabban	JCP	20	(1952)	1810
		-	-	Symmetry	Minden	JCP	20	(1952)	1964
		20-38μ	G	Freq, Assign, Thermo	Smith	JCP	20	(1952)	473
		200-3000	-	Assign	Smith	JCP	20	(1952)	847
		-	-	IR, Freq, Assign	Nielsen	JCP	21	(1953)	1060
		-	-	Assign, FC	Pan	JCP	21	(1953)	1426
		-	-	Freq	Sheppard	JCP	23	(1955)	582
		-	-	Potential barrier	Bak	JCP	24	(1956)	918
		500-3000	-	Freq	Bellamy	JCS	-	(1956)	2753
		-	-	Thermo	Li	JPC	60	(1956)	466
		-	-	Spec	Vanderkooi	JPC	60	(1956)	636

		-	-	Mol struct	Edgell	JACS	79	(1957)	2391
		-	G	Microwave	Thomas	ZE	61	(1957)	935
		150-450	G	Spec, Assign	Catalano	JPC	62	(1958)	838
$C_2H_3F_3O$	2,2,2-Trifluoroethanol	-	L,Sol	Freq, H bond	Haszeldine	JCS	-	(1953)	1757
		3200-3800	Sol	Spect, H bond	Mukherjee	JPC	62	(1958)	1311
		3400-3800	Sol	H bond	West	JACS	81	(1959)	1614
$C_2H_3F_3O_2$	Fluoral hydrate	400-3800	G,Sol,L	Spec, Freq	Novak	SA	16	(1960)	521
$C_2H_3F_3O_2$	Perfluoroacetaldehydrol	2-14.7μ	S	Spec, Group freq	Husted	JACS	74	(1952)	5422
C_2H_3I	Vinyl iodide	500-3200	G	Assign, Spec	Torkington	JCS	-	(1944)	303
		-	-	FC	Linnett	TFS	41	(1945)	223
		-	-	FC, Freq	Pitzer	JCP	14	(1946)	586
		-	G	Thermo	Richards	JCS	-	(1948)	1931
		-	-	Assign, Quant mech	Torkington	JCP	17	(1949)	1279
		-	-	FC	Torkington	PRS	206	(1951)	17
		-	-	Microwave	Cornwell	JCP	22	(1954)	1257
		-	-	Microwave	Morgan	JCP	22	(1954)	1427
		-	Sol	Group freq, Spec	Potts	SA	15	(1959)	679
$C_2H_3IO_2$	Iodoacetic acid	1300-2000	Sol	Spec	Gillette	JACS	58	(1936)	1143
		-	Sol	Freq correlated with dissociation constant	Goulden	SA	6	(1954)	129
		5.5-6.5μ	Sol	Ident	Sawicki	AC	31	(1959)	523
		1580-1900	Sol	Freq, I	Bellanato	SA	16	(1960)	1333
C_2H_3N	Methyl cyanide	-	-	Quant mech	Wilson	JCP	2	(1934)	432
		1 -12μ	L	Spec	Bell	JACS	57	(1935)	1023
		2.8-5.0μ	L	Spec	Gordy	JCP	3	(1935)	664
		1.0-6.5μ	L	Spec	Gordy	JCP	4	(1936)	85
		-	-	Discussion of bands	Badger	JCP	5	(1937)	178
		7800-11500	G,L	Spec, Vib anal	Badger	JACS	59	(1937)	303
		2.5-3.1μ	L	Spec, H bond	Gordy	JACS	59	(1937)	464
		2.5-3.5μ	L,Sol	Spec, H bond	Gordy	JACS	60	(1938)	605
		-	-	Solvent effect	Gordy	JCP	7	(1939)	93
		-	-	Thermo	Ewell	JCP	8	(1940)	635
		-	-	FC	Linnett	JCP	8	(1940)	91
		-	-	FC	Crawford	JCP	9	(1941)	69
		-	-	FC	Linnett	TFS	37	(1941)	469
		-	-	Freq, Thermo	Thompson	TFS	37	(1941)	344
		1300-1600	-	Spec	Barnes	IEC	15	(1943)	659

		-	-	FC	Linnett	TFS	41	(1945)	223
		3-20μ	L	Spec, Use as solvent	Torkington	TFS	41	(1945)	184
		-	-	FC, Bond distance	Gordy	JCP	14	(1946)	305
		-	-	Microwave	Ring	PR	72	(1947)	1262
		-	-	FC	Walsh	TFS	43	(1947)	60
		-	-	Microwave spec	Dailey	AC	21	(1949)	540
		-	-	Microwave	Kessler	PR	79	(1950)	54
		-	-	Microwave	Nielsen	PR	77	(1950)	130
		-	-	C = N band	Griffith	AC	23	(1951)	678
		1.6-20μ	G,L	Spec, Assign	Venkateswarlu	JCP	19	(1951)	293
		-	L	C = N freq, I	Kitson	AC	24	(1952)	334
		15-25μ	L	Transparent solvent	Marrison	JSI	29	(1952)	233
		2-15μ	L	Spec, Solvent	Pristera	APS	6	(1952)	29
		-	-	FC, Freq	Thomas	JCS	-	(1952)	2383
		-	G	Spec, Rot anal	Thompson	TFS	48	(1952)	502
		250-460	G,L	Observation	Venkateswarlu	JCP	20	(1952)	923
		2-16μ	L	Spec	Anderson	JOSA	43	(1953)	221
		-	-	Band freq	Enimons	JACS	75	(1953)	6047
		1.5-16μ	G	Spec	Parker	PR	91	(1953)	235
		-	-	FC	Krishnamachari	IJP	28	(1954)	468
		2-16μ	Sol	Spec	Bard	AC	27	(1955)	12
		-	Sol	Solvent effect	Bayliss	AJC	8	(1955)	26
		-	Sol	Mol struct	Felton	JCS	-	(1955)	2170
		-	Sol	C = N freq, I	Skinner	JCS	-	(1955)	487
		500-3000	-	Six fund interrelated	Bellamy	JCS	-	(1956)	2753
		-	-	Rot vib interaction	Meal	JCP	24	(1956)	1126
		1200-2400	G	Spec	Birnbaun	JCP	27	(1957)	360
		1.6-20μ	G	Mol consts, Spec, Assign	Parker	JMS	1	(1957)	107
		25-35μ	G	Resolution of struct	Rao	JMS	1	(1957)	24
		2200-2300	G	Freq, Struct	Jesson	SA	13	(1958)	217
		3000	-	Assign	Josien	CPR	246	(1958)	1992
		-	Sol	Pressure effect	Wiederkeher	JCP	28	(1958)	311
		-	Sol	Intermolecular reactions	Zhukova	OS	5	(1958)	270
		-	-	Solvent effect	Bayliss	SA	15	(1959)	12
		2900	G,Sol	Assign	Deschamps	BSCF	-	(1959)	88
		-	L,Sol	Freq, I	Foffain	NC	13	(1959)	213
		-	G	Microwave, Assign	Jaseja	PIAS	50A	(1959)	108
		4270-4510	G	Spec, Assign	Dick	JMS	5	(1960)	170
		-	-	NCA, Thermo	Krishnapillai	JMS	5	(1960)	212
		400-7000	-	Spec, Freq	Rao	ZAUA	304	(1960)	351
		30-50μ	G	Spec, Mol consts	Robinson	JCP	32	(1960)	556
C_2H_3N	Methyl isocyanide	1.0-6.5μ	L	Spec	Gordy	JCP	4	(1936)	85
		7800-11500	L	Spec, Vib anal	Badger	JACS	59	(1937)	303

		-	-	Thermo	Ewell	JCP	8	(1940)	635
		-	-	Freq assign	Eyster	JCP	8	(1940)	369
		-	-	FC	Linnett	JCP	8	(1940)	91
		-	-	FC	Linnett	TFS	41	(1945)	223
		-	-	FC, Bond distance	Gordy	JCP	14	(1946)	305
		-	-	Microwave	Ring	PR	72	(1947)	1262
		-	-	Microwave spec	Dailey	AC	21	(1949)	540
		-	-	Microwave	Kessler	PR	79	(1950)	54
		-	-	Microwave	Nielsen	PR	77	(1950)	130
		-	-	Spec	Thompson	TFS	48	(1952)	502
		-	-	FC	Krishnamachari	IJP	28	(1954)	463
		-	G	Freq assign	Jaseja	PIAS	50A	(1959)	108
		-	-	NCA, Thermo	Krishnapillai	JMS	5	(1960)	212
$C_2^{12}H_3N^{14}$	Methyl isocyanide (isotopic)	-	-	Microwave	Kessler	PR	79	(1950)	54
$C^{12}C^{13}H_3N^{14}$	Methyl isocyanide (isotopic)	-	-	Microwave	Kessler	PR	79	(1950)	54
C_2H_3NO	Methyl isocyanate	-	-	Quant mech	Wilson	JCP	2	(1934)	432
		3-20μ	G	Spec, Freq assign	Eyster	JCP	8	(1940)	369
		-	Sol	Band freq	Davison	JCS	-	(1953)	3712
		4-7.5μ	G	Freq, Assign	Barr	JCS	-	(1956)	3428
		500-3000	-	Freq	Bellamy	JCS	-	(1956)	2753
$C_2H_3NO_3$	Acetyl nitrite	-	G, Sol	Freq	O'Sullivan	JCS	-	(1957)	4144
$C_2H_3NO_4$	Acetyl nitrate	-	-	Freq	Freeman	JACS	80	(1958)	5954
C_2H_3NS	Methyl thiocyanate	2.8-5.0μ	L	Spec	Gordy	JCP	3	(1935)	664
		1.0-6.5μ	L	Spec	Gordy	JCP	4	(1936)	85
		-	-	FC	Linnett	TFS	41	(1945)	223
		-	-	Assign from microwave	Beard	JACS	71	(1949)	929
		2-15μ	L	Spec, Solvent	Pristera	APS	6	(1952)	29
		600-2200	-	Freq	Lieber	SA	13	(1959)	296
		400-4000	L	Spec, Assign, Freq	Ham	SA	16	(1960)	279
		170-3100	L, G	Spec, Assign	Miller	ZE	64	(1960)	701
C_2H_3NS	Methyl isothiocyanate	1.6-6.5μ	L	Spec	Gordy	JCP	4	(1936)	85
		2-20μ	G	Freq, Assign, Thermo	Eyster	JCP	8	(1940)	369
		-	-	Assign from microwave	Beard	JACS	71	(1949)	929
		200-2300	-	Freq	Caldow	SA	13	(1958)	212

		250-10000	G,S	Spec, Assign, Thermo	Costoulas	AJC	12	(1959)	601
		600-2200	-	Freq	Lieber	SA	13	(1959)	296
		400-4000	L,G	Spec, Freq, Assign	Ham	SA	16	(1960)	279
		170-3100	L,G	Spec, Assign	Miller	ZE	64	(1960)	701
$C_2H_3N_3$	1,2,3-Triazole	2-16μ	-	Spec, Group freq	Hartzel	JACS	76	(1954)	667
C_2H_3DO	Acetaldehyde-d_1	300-3600	G,S	Spec, Assign	Evans	CJC	34	(1956)	1983
$C_2H_3O_2^-$	Acetate ion	-	-	FC	Linnett	TFS	41	(1945)	223
		-	-	Freq, Assign	Nakamura	NKZ	79	(1958)	1411
C_2H_4	Ethylene	3.3μ	L	Freq	Meyer	PR	21	(1923)	712
		2900-3200	G	Freq	Meyer	JOSA	15	(1927)	257
		2-13μ	G	Molecular bands	Levin	JOSA	16	(1928)	137
		3.3μ	G	Spec	Baker	TFS	25	(1929)	912
		10.2-11.2μ	G	Spec	Bennett	JACS	51	(1929)	377
		-	-	Freq	Bonino	TFS	25	(1929)	876
		-	G	IR	Dickinson	PR	34	(1929)	582
		0.68-0.92μ	G	Spec	Badger	PR	35	(1930)	1433
		-	-	Vibrations	Kettering	PR	36	(1930)	531
		-	G	Spec	Badger	PR	38	(1931)	1442
		20.7-152μ	G	Spec	Strong	PR	42	(1932)	267
		-	-	Assign, Spec	Villars	CR	11	(1932)	369
		-	-	Thermo	Kassel	JACS	55	(1933)	1351
		-	-	Theory of formation	Mulliken	PR	43	(1933)	279
		-	-	Interatomic distances	Badger	PR	45	(1934)	648
		-	-	Freq	Mecke	TFS	30	(1934)	200
		-	G	Vibrations	Dunlan	JCP	3	(1935)	384
		-	-	FC	Sutherland	PRS	148	(1935)	250
		-	G	Thermo	Teller	JCS	-	(1935)	876
		-	G	Freq	Teller	JCS	-	(1935)	885
		.6-1.2μ	G	FC, Freq assign	Bonner	JACS	58	(1936)	34
		-	-	Thermo	Kassel	JCP	4	(1936)	144
		-	-	Thermo	Kassel	JCP	4	(1936)	435
		-	G	FC	Linnett	JCS	-	(1937)	1393
		-	-	Vibration	Manneback	JCP	5	(1937)	989
		-	G	Freq	Thompson	JCS	-	(1937)	1376
		-	G	FC	Thompson	JCS	-	(1937)	1384
		33μ	G	C-H ext coefficient	Williams	JAP	8	(1937)	497
		-	-	Freq, Assign	Wu	JCP	5	(1937)	600
		-	-	Quant mech	Badger	JCP	6	(1938)	711
		-	-	Bond distances	Eyster	JCP	6	(1938)	580
		-	-	Freq, FC	Fox	PRS	167	(1938)	257

-	-	Freq, Assign	Conn	PRS	172	(1939)	172
-	-	Coriolis coupling theory	Jahn	PR	56	(1939)	680
-	-	Vibration analysis	Stitt	JCP	7	(1939)	297
-	G	Struct, Mol consts	Thompson	TFS	35	(1939)	697
2.6-3.8 μ	Sol	Spec, Assign	Fox	PRS	175	(1940)	208
3.1-3.4 μ	G,Sol	Spec	Fox	PRS	174	(1940)	234
-	-	Freq, Entropy	Linnett	TFS	36	(1940)	527
-	-	Thermo	Pitzer	JCP	8	(1940)	711
-	G	Thermo	Pitzer	CR	27	(1940)	39
3.35 μ	G	Struct	Smith	JCP	8	(1940)	798
-	-	Freq assign, Thermo	Burck	JCP	9	(1941)	118
-	-	Equilibrium	Guggenheim	TFS	37	(1941)	97
-	-	FC, Bond length	Linnett	TFS	37	(1941)	469
-	-	Freq, Thermo	Thompson	TFS	37	(1941)	344
950-3050	-	Band I	Wells	JCP	9	(1941)	659
2-14 μ	-	Assign, Spec	Gallaway	JCP	10	(1942)	88
12.5-14.5 μ	G	Assign	Rasmussen	PR	62	(1942)	301
-	-	Freq	Barnes	IEC	15	(1943)	659
-	G	Absorption laws	Nielsen	RMP	16	(1944)	307
13 μ	G	Spec	Thompson	TFS	40	(1944)	295
-	-	FC	Linnett	TFS	41	(1945)	223
-	-	FC, Bond distances	Gordy	JCP	14	(1946)	305
-	G	Thermo	Kilpatrick	JRNB	37	(1946)	163
-	-	FC	Pitzer	JCP	14	(1946)	586
-	-	FC, Bond order	Walsh	TFS	42	(1946)	779
-	-	Spec	Coggeshall	JCP	15	(1947)	65
-	-	Vibrational analysis	Halverson	RMP	19	(1947)	87
-	G	NCA	Kilpatrick	JRNB	38	(1947)	191
-	-	Freq	Mullikan	CR	41	(1947)	219
-	-	Assign, Struct	Price	JCP	15	(1947)	614
2-15 μ	G	Spec, Assign	Ramussen	JCP	15	(1947)	120
-	-	Pressure broadening	Seyfried	IEC	19	(1947)	298
-	G	Assign, I	Thorndike	JCP	15	(1947)	157
-	-	FC	Walsh	TFS	43	(1947)	60
-	-	Bond strengths	Walsh	DFS	2	(1947)	18
-	G	I	Wilson	PR	71	(1947)	479
-	-	Thermo	Crawford	JCP	16	(1948)	733
1-16 μ	G	Dispersion	Hammer	PR	74	(1948)	1262
-	-	Quant mech	Parr	JCP	16	(1948)	526
-	-	Analysis	Partington	JCS	-	(1948)	2226
-	-	Vib analysis	Linnett	TFS	45	(1949)	832
-	-	Freq, FC	Sheppard	PRS	196	(1949)	195
-	-	Quant mech	Torkington	JCP	17	(1949)	1026

		582-3300	G	Assign of freq	Arnett	JCP	18	(1950)	118
		-	G	Analysis	O'Neal	AC	22	(1950)	991
		1.6-2.5μ	G	Combination bands	Plyler	JCP	19	(1951)	658
		-	G	Absence of C_2H_4 in atmosphere	Shaw	PR	81	(1951)	462
		-	-	FC	Torkington	PRS	206	(1951)	17
		2-16μ	G	Spec	Williamson	AMS	39	(1951)	672
		-	-	Freq	El-Sabban	JCP	20	(1952)	1810
		-	-	Group freq	Haszeldine	JCS	-	(1952)	4423
		-	-	FC, Bond lengths	Longuet	TFS	48	(1952)	1077
		2-16μ	G	Spec	Patterson	APS	6	(1952)	17
		-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
		-	-	FC	Crawford	JCP	21	(1953)	678
		-	-	Freq	Higgs	JCP	21	(1953)	1131
		-	-	Quant mech, Freq	Moffitt	PRS	218	(1953)	464
		-	-	Vibration interaction theory	Torkington	JCP	21	(1953)	83
		-	G	Ident	Moore	JACS	76	(1954)	5253
		-	-	Freq	Brown	TFS	51	(1955)	1611
		-	-	Freq	Coulson	JCS	-	(1955)	1813
		2-11.5μ	G	Spec	Donovan	JCP	23	(1955)	1592
		-	-	NCA	Dowling	PR	100	(1955)	1267
		-	-	I	Eggers	JCP	23	(1955)	221
		-	-	Vibration amplitude theory	Morino	JCP	23	(1955)	737
		-	-	Freq	Parr	JCP	23	(1955)	711
		-	-	Assign	Wilkinson	JCP	23	(1955)	1895
		-	-	Vib sum rule	Bernstein	JCP	24	(1956)	910
		-	-	Quant mech	Flanagan	JPC	60	(1956)	730
		1-25μ	G	NCA, Bond moments	Golike	JCP	25	(1956)	1266
		2-15μ	G	Spec	Pierson	AC	28	(1956)	1218
		3.1-3.8μ	-	Spec, Struct	Pliskin	JCP	24	(1956)	482
		-	-	Intensity calculations	Liehr	TFS	53	(1957)	1533
		860-1100	G	Spec	Lord	JOSA	47	(1957)	689
		-	-	Freq	Bellamy	JCS	-	(1958)	2463
		-	-	Theory of I	Sverdlov	OS	4	(1958)	697
		1000-2300	G	Spec	Ozawa	RPCJ	29	(1959)	1
		650-3600	S	Struct	Brecher	DA	20	(1959)	516
		-	Sol	Spec	Jacob	CPR	249	(1959)	523
		2800-4000	S	Spec, Assign	Little	JPC	63	(1959)	1616
		700-3500	L	Freq, Spec	Comeford	JMS	5	(1960)	474
		900-1700	Sol	IR	Katritzky	JCS	-	(1960)	1519
C_2H_4DBr	Bromoethane-α-d_1	400-4000	G	Spec, Iso	Bak	ACS	12	(1958)	2021

C_2H_4DBr	Bromoethane-β-d_1	-	-	Hindered rotation	Langseth	JCP	8	(1940)	430
		400-4000	G	Spec, Iso	Bak	ACS	12	(1958)	2021
$C_2H_4DCl^{35}$	trans-chloroethane-d_1	19000-30000 Mc/sec	G	Spec, Struct, Consts	Wagner	JCP	26	(1957)	1588
C_2H_4DF	Fluoroethane-α-d_1	400-4000	G	Spec, Rot iso	Bak	ACS	12	(1958)	2021
C_2H_4DF	Fluoroethane-β-d_1	400-4000	G	Spec, Rot iso	Bak	ACS	12	(1958)	2021
C_2H_4DN	Ethylenimine-α-d_1	-	-	Microwave, Struct	Turner	JCP	23	(1955)	1966
C_2H_4DNO	N-methylformamide-d_1	400-3600	G,L	Spec, Assign	Miyazawa	JCP	24	(1956)	408
$C_2H_4DNO_2$	Acetohydroxamic acid-d_1	700-4000	S,Sol	Spec, H bond	Hadzi	SA	10	(1958)	38
$C_2H_4D_2$	Sym-Ethane-d_2	-	-	Thermo	Pitzer	JCP	14	(1946)	239
$C_2H_4D_2O$	Ethanol-α-d_2	700-1500	G,Sol	Assign	Hadzi	SA	9	(1957)	263
$C_2H_4D_4N_2$	Ethylenediamine-d_4	2-25μ	S,G,L	Freq, Assign	Sabatini	SA	16	(1960)	677
C_2H_4BrCl	1-Bromo-2-chloroethane	0.8-3μ	L	Spec, Freq	Spence	PR	34	(1929)	730
		-	-	Assign	Wu	JCP	7	(1939)	965
		-	-	Product rule	Mizushima	JCP	17	(1949)	663
		-	G	Iso, Thermo, Band freq	Powling	JACS	73	(1951)	1815
		500-1500	L,S	Spec, Assign, Iso	Brown	TFS	48	(1952)	128
		-	G,L,S, Sol	Internal rot config	Mizushima	JPC	56	(1952)	324
		-	G,L	Iso	Muratani	JCP	21	(1953)	1411
		-	-	Sum rule	Mizushima	JCP	21	(1953)	215
C_2H_4BrF	1-Bromo-2-fluoroethane	2-40μ	L,Sol	Spec, I, Assign	Simpson	JRNB	50	(1953)	223
C_2H_4BrNO	N-Bromoacetamide	1-15μ	S,Sol	Spec, Assign, H bond	Lacher	JACS	74	(1952)	5578
$C_2H_4Br_2$	1,1-Dibromoethane	0.8-3μ	L	Spec, Freq	Spence	PR	34	(1929)	730
		-	-	Band freq	Fugassi	JPC	46	(1942)	630
		500-3200	L	Spec, Assign	Thompson	TFS	42	(1946)	432
$C_2H_4Br_2$	1,2-Dibromoethane	2.5μ	L	Spec	Ellis	PR	23	(1924)	48
		-	-	Freq, Absorption	Bonino	TFS	25	(1929)	876

		0.8-3μ	L	Spec, Freq	Spence	PR	34	(1929)	730
		0.7-2.7μ	L	Spec	Ellis	RSI	4	(1933)	123
		-	-	NCA	Morino	BCSJ	13	(1938)	189
		-	-	Vibration assign	Wu	JCP	7	(1939)	965
		-	-	FC	Linnett	TFS	41	(1945)	223
		14-19μ	L	Spec	Mortimes	JACS	69	(1947)	822
		-	-	Internal rotation	Gwinn	JCP	17	(1948)	303
		-	-	Product rule, Iso	Bernstein	JCP	17	(1949)	256
		-	-	Rotational energy	Mizushima	JCP	17	(1949)	663
		-	-	Product rule	Mizushima	JCP	17	(1949)	663
		700-1500	G,L	Absorption freq	Mizushima	JCP	17	(1949)	591
		22-39μ	L	Freq	Plyler	JCP	17	(1949)	218
		-	-	Rotational energy	Rank	JCP	17	(1949)	354
		1192-1252	G	IR	Bernstein	JCP	18	(1950)	897
		-	G	Iso	Bernstein	JCP	18	(1950)	897
		-	-	Iso	Mizushima	JCP	18	(1950)	1516
		1192-1236	L	IR	Morino	JCP	18	(1950)	754
		400-3200	L,S	Spec, Assign	Neu	JCP	18	(1950)	1642
		-	G	Iso, Thermo, Band freq	Powling	JACS	73	(1951)	1815
		500-1500	L,S	Spec, Assign, Iso	Brown	TFS	48	(1952)	128
		-	-	Internal rotation	Mizushima	JPC	56	(1952)	324
		2-15μ	L	Spec, Solvent	Pristera	APS	6	(1952)	29
		-	G,L	Iso	Kuratani	JCP	21	(1953)	1411
		-	-	Config, Freq	Mizushima	JCP	21	(1953)	215
		-	-	Iso	Wada	JCP	22	(1954)	198
		1-6μ	L	Dispersion	Jaffe	JOSA	47	(1957)	782
		118-412	G,L	Spec	Ichishima	JCP	29	(1958)	1190
C_2H_4ClF	1-Chloro-2-fluoroethane	-	G	Microwave spec	Mukhtarov	DANS	115	(1957)	486
		-	-	Mol consts	Mukhtarov	IANS	22	(1958)	1154
		600-1400	G,L	Iso	Bazhulin	OS	6	(1959)	625
		-	G	Microwave spec	Mukhtarov	OS	6	(1959)	260
C_2H_4ClI	1-Chloro-2-iodoethane	-	-	Freq assign	Wu	JCP	7	(1939)	965
		-	-	Product rule	Mizushima	JCP	17	(1949)	663
		-	S,L,G, Sol	Config.	Mizushima	JPC	56	(1952)	324
		-	-	Sum rule	Mizushima	JCP	21	(1953)	215
C_2H_4ClNO	Chloroacetamide	700-3500	S	Struct	Kuratani	BCSJ	25	(1952)	258
		-	Sol	Freq, I	Brown	JPC	63	(1959)	1324
		650-4000	G,L	Assign, Struct	Parsons	JMS	3	(1959)	73
$C_2H_4ClNO_2$	Chloroacetohydroxamic acid	-	-	Spectrum, Bands	Hadzi	SA	10	(1958)	38

$C_2H_4ClO_2B$	Ethylenechloroboronate	6-14 μ	L,S	Assign, Struct	Blau	JCS	-	(1960)	380
		2-14 μ	L,S	Struct, Group freq	Blau	JCS	-	(1960)	380
$C_2H_4Cl_2$	1,1-Dichloroethane	0.8-3 μ	L	Spec, Freq	Spence	PR	34	(1929)	730
		2.5-15 μ	-	Detection in $CHCl_3$	Wright	IEC	13	(1941)	1
		500-1500	L	Spec	Thompson	PRS	184	(1945)	21
		3-20 μ	L	Spec	Torkington	TFS	41	(1945)	184
		500-3200	L	Spec, Assign	Marrison	JSI	29	(1952)	233
		17-25 μ	L	Solvent	Urone	AC	24	(1952)	626
		3-35 μ	L	IR, Spec, Assign, Thermo	Allen	CJC	32	(1954)	1124
		2-38 μ	L,G	IR, Spec, Assign, Thermo	Daasch	JCP	22	(1954)	1293
		2-15 μ	G	Spec	Pierson	AC	28	(1956)	1218
		9.5 μ	-	Absorption	Spell	AC	31	(1959)	621
$C_2H_4Cl_2$	1,2-Dichloroethane	2.5 μ	L	Spec	Ellis	PR	23	(1924)	48
		2-7.0 μ	L	Spec	Dainels	JACS	47	(1925)	2856
		1-25 μ	L	Spec	Smith	JACS	48	(1926)	1512
		0.8-3 μ	L	Spec, Freq	Spence	PR	34	(1929)	730
		1-13 μ	L	Spec	Stair	JRNB	15	(1935)	295
		-	-	NCA	Morino	BCSJ	13	(1938)	189
		-	-	Freq assign	Wu	JCP	7	(1939)	965
		1200-1500	-	Spec	Barnes	IEC	15	(1943)	659
		-	L	Analysis by total absorption	Fuoss	RSI	16	(1945)	53
		-	-	FC	Linnett	TFS	41	(1945)	223
		500-1500	L	Spec	Thompson	PRS	184	(1945)	21
		3-20 μ	L	Spec	Torkington	TFS	41	(1945)	184
		500-3200	L	Spec, Assign	Thompson	TFS	42	(1946)	432
		-	-	Internal rotation	Gwinn	JCP	16	(1948)	303
		-	-	Product rule, Iso	Bernstein	JCP	17	(1949)	256
		-	-	Energy difference	Bernstein	JCP	17	(1949)	258
		1190-1350	G	Spec	Bernstein	JCP	17	(1949)	262
		-	-	Rotational energy	Mizushima	JCP	17	(1949)	663
		-	-	Product rule	Mizushima	JCP	17	(1949)	663
		700-1500	G,L	Freq	Mizushima	JCP	17	(1949)	591
		22-39 μ	L	Freq	Plyler	JCP	17	(1949)	218
		-	-	Rotational energy	Rank	JCP	17	(1949)	1354
		-	-	Iso	Mizushima	JCP	18	(1950)	1516
		-	G,L	Assign	Neu	JCP	18	(1950)	1642
		-	-	Moment of inertia	Torkington	JCP	18	(1950)	407
		1230-1456	S	Trans-Gauche bands	Malherbe	JCP	19	(1951)	1607
		-	G	Iso, Thermo, Freq	Powling	JACS	73	(1951)	1815

		500-1500	L,S	Spec, Assign, Iso	Brown	TFS	48	(1952)	128
		15-25μ	L	Solvent	Marrison	JSI	29	(1952)	233
		-	-	Internal rotation	Mizushima	JPC	56	(1952)	324
		2-15μ	L	Spec, Solvent	Pristera	APS	6	(1952)	29
		8-14.5μ	Sol	Band freq	Urone	AC	24	(1952)	626
		140-450μ	G	Spec	Bohn	JCP	21	(1953)	719
		-	G,L	Iso	Kuratani	JCP	21	(1953)	1411
		-	-	Config, Freq	Mizushima	JCP	21	(1953)	215
		500-1500	L	Spec	O'Loane	JCP	21	(1953)	669
		-	-	Evidence for Gauche form	Mizushima	JCP	22	(1954)	1614
		-	-	Solvent effect	Wada	JCP	22	(1954)	198
		654-754	Sol	Energy difference	Wada	JCP	22	(1954)	1276
		1430-1450	L	Trans-Gauche eqm.	Yoshino	JCP	23	(1955)	1564
		2-15μ	G	Spec	Pierson	AC	28	(1956)	1218
		740-810	G	Mol struct, Mol consts	Dixon	SA	9	(1957)	59
		700-1600	L	Config	Kuroda	JPC	26	(1957)	323
		-	-	Freq	Nakamura	JCP	26	(1957)	970
		-	-	Freq	Wilmshurst	CJC	35	(1957)	937
		118-412	L,G	Spec	Ichishima	JCP	29	(1958)	1190
		1100-1500	L,Sol	Spec, I, Temp effect	Mazumdar	IJP	32	(1958)	451
		14μ	-	Absorption	Spell	AC	31	(1959)	621
$C_2H_4Cl_2N_6$	Azo-bis-(chloroformamidine)	1-15μ	S	Group freq	Kumler	JACS	76	(1954)	814
$C_2H_4Cl_2O$	Dichloroethanol	3500	Sol	Association, H bond	Josien	CPR	250	(1960)	2559
$C_2H_4Cl_2O_2$	α, α-Dichloroacetaldehyde hydrate	600-3000	-	Bands study	Anderson	SA	12	(1958)	233
$C_2H_4Cl_2Se$	Bis(chloromethyl)selenide	2-40μ	-	Assign	Bergson	ARK	13	(1958)	11
$C_2H_4Cl_3O_4P$	2,2,2-Trichloro-1-hydroxy-ethylphosphonic acid	-	-	Association	Barthel	JACS	77	(1955)	2424
$C_2H_4Cl_3O_4B$	Ethylene trichloroacetyl-borate	6-14μ	S,L	Assign, Struct	Blau	JCS	-	(1960)	380
$C_2H_4F_2$	1,1-Difluoroethane	2-38μ	G,L	IR, Spec, Assign	Smith	JCP	20	(1952)	847
		-	-	Freq correlation	Sheppard	JCP	23	(1955)	582
		300-6000	G,L,S	Assign, Thermo	Klaboe	JCS	33	(1960)	1764
$C_2H_4F_2O$	2,2-Difluoroethanol	-	Sol	Freq, H bond	Haszeldine	JCS	-	(1953)	1757
$C_2H_4F_3N.HCl$	β-Trifluoroethylamine. Hydrochloride	2-8μ	-	Spec	Nakanishi	BCSJ	30	(1957)	403

$C_2H_4I_2$	1,2-Diodoethane	-	-	Freq assign	Wu	JCP	7 (1939) 965
		-	-	Band freq	Fugassi	JPC	46 (1942) 630
$C_2H_4N_2O_2$	Oxamide	3100-3600	S	Assign, Spec	Richards	JCS	- (1947) 1248
		400-4000	L	Spec, Freq assign, Struct	Scott	JCP	30 (1959) 465
$C_2H_4N_2O_2$	Glyoxime	400-3500	-	Spec, Struct, Freq	Borello	GCI	87 (1957) 615
$C_2H_4N_2O_2$	Diformylhydrazine	400-3600	S	Spec, Assign	Miyazawa	JCP	24 (1956) 408
		900-1700	S	Freq, Struct	Parsons	JMS	2 (1958) 566
$C_2H_4N_2O_3$	Ethanenitrolic acid	-	Sol	Ext coeff	Grabiel	JACS	77 (1955) 1293
$C_2H_4N_2O_4$	1,1-Dinitroethane	-	-	Spec	Novikov	IANS	- (1959) 1855
$C_2H_4N_2S_2$	Dithiooxamide	600-1900	-	Freq, Spec	Jones	JCS	- (1957) 614
		400-4000	L	Spec, Freq, Assign, Struct	Scott	JCP	30 (1959) 465
$C_2H_4N_2S_2$	Rubeanic acid	400-4000	Sol	Struct	Barcelo	SA	10 (1958) 245
$C_2H_4N_4$	1-Cyanoguanidine	1250-1800	-	Spec	Barnes	IEC	15 (1943) 659
		900-1300	-	Christiansen effect	Price	JCP	16 (1948) 2157
$C_2H_4N_4S$	5-Methylamino-1,2,3,4-tricitrizole	700-1700	-	Spec, Struct, Config assign	Lieber	CJC	36 (1958) 801
$C_2H_4N_6$	3,6-Diamino-1,2,4,5-tetrazine	-	-	Band freq, Ident	Lin	JACS	76 (1954) 427
$C_2H_4N_6$	Diazoguanidine cyanide	2-15μ	S	Spec, Freq	Lieber	AC	23 (1951) 1594
$C_2H_4N_8O_4$	Azo-bis-nitroformamidine	1-15μ	S	Group freq	Kumler	JACS	76 (1954) 814
C_2H_4O	Acetaldehyde	0.7-2.5μ	L	Carbonyl study	Ellis	JACS	51 (1929) 1384
		20.7-152μ	G	Spec	Strong	PR	42 (1932) 267
		-	-	Struct	Mullikan	JCP	3 (1935) 564
		1-20μ	G	Spec, Assign, Thermo	Thompson	TFS	38 (1942) 37
		3-25μ	G	Spec, Assign	Morris	JCP	11 (1943) 230
		-	-	FC	Linnett	TFS	41 (1945) 223
		-	-	FC	Walsh	TFS	43 (1947) 60
		-	-	FC	Walsh	TFS	43 (1947) 158

		1700	Sol	Freq	Flett	TFS	44	(1948)	767
		-	G	Freq	Hartwell	JCS	-	(1948)	1436
		-	-	In ethylene oxide decomp	Simard	JCP	16	(1948)	836
		4700	Sol	Vibrations, I	Richards	TFS	45	(1949)	874
		-	G	Analysis for HC oxidation product	Badin	JACS	72	(1950)	1550
		2700-3000	Sol	Spec, Freq	Pozefsky	AC	23	(1951)	1611
		120-244	G	Freq	O'Loane	JCP	21	(1953)	699
		250-4000	G	Mol consts	Hadzi	CPR	238	(1954)	2150
		-	-	Rot barrier theory	Luft	JCP	22	(1954)	1814
		1720	-	Freq, Bond length	Margoshes	JCP	22	(1954)	381
		-	Sol	Solvent effect	Bayliss	AJC	8	(1955)	26
		-	-	Freq	Kagarise	JACS	77	(1955)	1377
		-	Sol	Freq	Pinchas	AC	27	(1955)	2
		500-3000	-	Six fundamentals related	Bellamy	JCS	-	(1956)	2753
		300-3600	G, S	Spec, Assign	Evans	CJC	34	(1956)	1083
		-	G	Microwave	Lin	JCP	24	(1956)	631
		-	-	Bond energies	Reed	TFS	52	(1956)	1195
		3-5 μ	S	Freq, Assign	Schneider	TFS	52	(1956)	13
		-	G	Freq	Bellamy	JCS	-	(1957)	4294
		2-15 μ	G	Spec	Friedel	AC	29	(1957)	1362
		1700-1800	G	Comparison	Bellamy	JCS	-	(1958)	3465
		0-80 Mc/sec	G	Relative I of microwave abs. lines	Verdier	JCP	29	(1958)	340
		170-470	-	Absorption bands	Moller	CPR	250	(1960)	3977
C_2H_4O	Ethylene oxide	1-15 μ	-	FC, IR	Bonner	JCP	5	(1937)	293
		1-15 μ	-	Spec	Bonner	JCP	5	(1937)	704
		-	-	Spec, Struct	Eyster	JCP	6	(1938)	576
		500-7000	G	Spec, Assign	Linnett	JCP	6	(1938)	692
		-	-	Thermo	Kistiakowsky	JCP	8	(1940)	618
		-	-	Freq, Assign	Thompson	TFS	36	(1940)	805
		-	-	Band freq	Fuggassi	JPC	46	(1942)	630
		1100-1300	-	Spec	Thompson	JCS	-	(1944)	183
		-	-	FC	Ramsay	PRS	190	(1947)	562
		-	-	Microwave	Cunningham	JCP	17	(1949)	211
		-	-	Thermo	Giauque	JACS	71	(1949)	2176
		-	-	Struct	Walsh	TFS	45	(1949)	179
		2-20 μ	G	Assign, Spec, Thermo	Thompson	TFS	47	(1951)	946
		-	-	Assign	Guthrie	JACS	74	(1952)	2795
		-	-	FC	Stone	JCP	22	(1954)	925
		375-3800	G	IR, Spec, Assign	Lord	JCP	24	(1956)	656
		-	-	Struct from spec	Turner	JCP	24	(1956)	924

$C^{12}C^{13}H_4O$	Ethylene oxide (isotopic)	-	-	Struct from spec	Turner	JCP	24	(1956)	924
C_2H_4OS	Thioacetic acid	3.1-4.5 μ	L	H bond	Gordy	JACS	62	(1940)	497
		700-3500	G	IR, Assign	Sheppard	TFS	45	(1949)	693
		-	-	Bands	Crouch	JACS	74	(1952)	2926
		2200-2700	L,Sol	Spec	Allen	JCS	-	(1957)	3912
		2.5-16 μ	-	Effect of struct	Nyquist	SA	15	(1959)	514
$C_2H_4O_2$	Acetic acid	52 μ	L	Total absorption	Hollnagel	PR	11	(1918)	505
		2-8 μ	Sol	Spec, Assign	Bennett	JACS	49	(1927)	50
		-	-	H bond	Lecomte	TFS	25	(1929)	864
		1100-2200	G	Spec	Gillette	JACS	58	(1936)	1139
		1300-2000	Sol	Spec	Gillette	JACS	58	(1936)	1143
		2.8-6.5 μ	L	Dissociation	Plyler	PR	49	(1936)	868
		-	-	Spec	Badger	JCP	5	(1937)	369
		9500-9800	G	Spec, H bond	Badger	JCP	5	(1937)	605
		9800-11000	Sol	Spec, H bond	Badger	JCP	5	(1937)	839
		10000-10275	G	Spec, H bond	Baner	JCP	5	(1937)	852
		5.6-6.0 μ	Sol	H bond	Gordy	JCP	5	(1937)	284
		0.9-4 μ	L,Sol	Spec, H bond	Kinsey	JCP	5	(1937)	399
		5.4-5.75 μ	L	Strong and weak acid study	Plyler	PR	51	(1937)	685
		-	-	H bond	Buswell	JCP	6	(1938)	296
		2100-3800	G,Sol	Spec, H bond	Buswell	JACS	60	(1938)	2239
		2.8-6.0 μ	-	Spec, H bond	Davies	JCP	6	(1938)	755
		1-16 μ	G	Spec, H bond	Herman	JCP	6	(1938)	534
		700-1900	G	Freq	Herman	JCP	7	(1939)	460
		2.8-5.0 μ	Sol	Spec, H bond	Wall	JACS	61	(1939)	2812
		-	-	Freq	Davies	TFS	36	(1940)	333
		-	-	H bond	Sutherland	TFS	36	(1940)	889
		-	-	FC	Linnett	TFS	41	(1945)	223
		-	-	FC	Halford	JCP	14	(1946)	395
		-	-	FC	Walsh	TFS	43	(1947)	60
		1735-1790	G	Freq	Hartwell	JCS	-	(1948)	1436
		-	-	FC	Richards	TFS	44	(1948)	40
		2600-3500	Sol	H bond	Chulanovskii	DANS	68	(1949)	1033
		2-15 μ	Sol	Spec	Ard	AC	23	(1951)	133
		700-4000	S,L	Freq	Flett	JCS	-	(1951)	962
		5.84 μ	Sol	Analysis	Meeks	AC	23	(1951)	792
		2700-3000	Sol	Freq	Pozefsky	AC	23	(1951)	1611
		-	Sol	Freq	Fuson	JCP	20	(1952)	1627
		1200-2000	Sol	Freq	Bender	JACS	75	(1953)	5986
		-	L	Band freq, I	Fowler	JOSA	43	(1953)	1054

		2160-3540	Sol	Spec, Struct, Table	Fuson	JOSA	43	(1953) 1102
		500-1500	L,Sol	IR, Assign,Spec	Hadzi	PRS	216	(1953) 247
		-	Sol	Equilibrium consts	Barrow	JACS	76	(1954) 5248
		-	Sol	Freq	Goulden	SA	6	(1954) 129
		2570-3548	Sol	Band freq	Harris	JACS	76	(1954) 1419
		-	-	Rotational barrier theory	Luft	JCP	22	(1954) 1814
		2-25μ	G	Spec, Assign, I	Weltner	JACS	77	(1955) 3941
		500-3000	-	Six fundamentals related	Bellamy	JCS	-	(1956) 2753
		-	-	Freq	Bratoz	SA	8	(1956) 249
		-	L,Sol	Freq, H bond	Cannon	JCP	24	(1956) 491
		0.9-3μ	Sol	Spec	Holman	AC	28	(1956) 1533
		650-5000	G	Spec	Neu	JPC	60	(1956) 320
		2-15μ	G	Spec	Pierson	AC	28	(1956) 1218
		2-15μ	Sol	Spec	Sternglanz	APS	10	(1956) 77
		-	Sol	Freq correlation	Bavin	CJC	35	(1957) 1555
		670-3500	L,S	Spec	Corish	JCS	-	(1957) 1746
		-	G,Sol	Freq	O'Sullivan	JCS	-	(1957) 4144
		-	G	Spec, Mol consts	Tabor	JCP	27	(1957) 974
		3-6μ	Sol	I, Equilibrium consts	Wenograd	JACS	79	(1957) 5844
		1500-700	G	Spec, Freq, Assign	Hadzi	SA	12	(1958) 162
		-	Sol	Freq	Horak	TEL	3	(1959) 19
		-	-	Freq	Lorenzelli	CPR	249	(1959) 669
		5.5-6.5μ	Sol	Ident	Sawicki	AC	31	(1959) 523
		2-9μ	Sol	Spec, Freq	Jencks	ABB	88	(1960) 193
		65-300	G	Spec	Nakai	NKZ	81	(1960) 881
		-	G	H bond	Pross	SA	16	(1960) 563
$C_2H_4O_2$	Methyl formate	7-12μ	-	Spec	Thompson	JCP	7	(1939) 441
		-	-	FC	Linnett	TFS	41	(1945) 223
		500-1750	L	Assign	Thompson	JCS	-	(1945) 640
		3-20μ	L	Spec	Torkington	TFS	41	(1945) 184
		1757	G	Freq	Hartwell	JCS	-	(1948) 1436
		2800-3150	Sol	Freq, Spec	Pozefsky	AC	23	(1951) 1611
		2-15μ	L	Spec	Pristera	APS	6	(1952) 29
		2-16μ	L	Spec	Anderson	JOSA	43	(1953) 221
		6.94-13.0μ	L	Group freq	Fowler	JOSA	43	(1953) 1054
		-	-	Band freq,Iso	Karpovich	JCP	22	(1954) 1767
		-	G,L,Sol	Band intensity	Russell	JCS	-	(1955) 479
		3-34μ	Sol	Spec, Assign, Config	Wilmshurst	JMS	1	(1957) 201
		-	Sol	I, Freq	Thompson	SA	13	(1958) 236
		-	-	Mol consts, Struct	Curl	JCP	30	(1959) 1529
		14-50μ	G	Freq	Lorenzelli	CPR	249	(1959) 520
		800-1500	Sol	Assign	Katritzky	SA	16	(1960) 954
		-	-	Assign	Katritzky	SA	16	(1960) 964

$C_2H_4O_2S$	Mercaptoacetic acid	700-4000	S,L	Freq	Flett	JCS	-	(1951)	962
$C_2H_4O_3$	Acetyl hydroperoxide	5-15μ	Sol	Spec	Minkoff	PRS	224	(1954)	176
$C_2H_4O_3$	Ethylene ozonide	2-15μ	G	Spec	Garvin	JPC	60	(1956)	807
$C_2H_4O_3$	Hydroxyacetic acid	700-4000	S,L	Freq	Flett	JCS	-	(1951)	962
$C_2H_4O_4$	Formic acid (dimer)	150-3800	G	Spec, Assign	Millikan	JACS	80	(1958)	3515
		-	-	NCA	Miyazawa	JACS	81	(1959)	74
C_2H_4S	Ethylene sulphide	-	-	Spec	Eyster	JCP	6	(1938)	576
		1-17μ	G	IR, Assign	Thompson	TFS	36	(1940)	805
		700-3400	G	IR, Spec, Assign	Thompson	TFS	47	(1951)	951
		2-16μ	L	Spec, Assign, Thermo	Guthrie	JACS	74	(1952)	2795
C_2H_5D	Ethane-d_1	-	-	Reaction kinetics	Morikawa	JACS	58	(1936)	1795
		804-1450	-	Comparison	Posey	PR	61	(1942)	546
		-	-	Spec, Assign	Posey	JCP	17	(1949)	182
C_2H_5DO	Ethanol-d_1	700-4000	L,G	Spec, Assign, Thermo	Barrow	JCP	20	(1952)	1739
		-	L	Freq, I	Cristol	JACS	75	(1953)	2647
		940	L	Deformation band	Quinan	JCP	21	(1953)	1896
		-	-	Ident	Glockling	JCS	-	(1955)	716
		-	-	Ident	Vaughan	JOC	20	(1955)	819
		350-4000	L,Sol	OD bands	Stuart	JCP	24	(1956)	559
		6000-10000	Sol	H bond	Bell	JCP	31	(1959)	300
C_2H_5DO	Ethanol-o-d_1	-	G	Freq	Tarte	JCP	26	(1957)	962
$C_2H_5D_3Si$	Dimethylsilane-d_3	-	G	Microwave spec	Pierce	JCP	31	(1959)	547
$C_2H_5D_5B_2$	Ethyldiborane-d_5	2-15μ	G	Spec, Assign	Lehmann	JCP	32	(1960)	1786
C_2H_5Br	Bromoethane	2.5μ	L	Spec	Ellis	PR	23	(1924)	48
		0.8-3μ	L	Spec, Freq	Spence	PR	34	(1929)	730
		1.5-15μ	-	Assign	Cross	JCP	1	(1933)	48
		-	-	Theoretical	Cross	JCP	1	(1933)	350
		-	-	Spec	Cross	JCP	2	(1934)	6
		1-13μ	L	Spec, Struct	Plum	JCP	5	(1937)	172
		-	-	Hindered rotation	Langsetha	JCP	8	(1940)	430
		-	-	Band freq	Fugassi	JPC	46	(1942)	630
		14-19μ	L	Spec	Mortemer	JACS	69	(1947)	822

		-	-	Freq	Chulanovsky	IANS	12	(1948)	628
		-	-	Assign	Sheppard	JCP	17	(1949)	79
		6000-9500	L	Spec	Lauer	APS	6	(1952)	29
		-	-	Freq	Mizushima	JCP	21	(1953)	215
		500-600	S,L	Spec, Iso	Brown	TFS	50	(1954)	535
		-	-	IR	Friedman	JCP	23	(1955)	109
		730-810	G	Mol struct	Dixon	SA	9	(1957)	59
		21000-29000 Mc/sec	G	Spec, Mol consts, Struct	Wagner	JCP	26	(1957)	1593
		400-4000	G	Spec, Iso	Bak	ACS	12	(1958)	2021
$C_2H_5Br^{79}$	Bromoethane (isotopic)	-	G	Microwave	Wagner	JCP	23	(1955)	599
$C_2H_5Br^{81}$	Bromoethane (isotopic)	-	G	Microwave	Wagner	JCP	23	(1955)	599
		21000-29000 Mc/sec	G	Spec, Struct	Wagner	JCP	26	(1957)	1593
C_2H_5BrO	2-Bromoethanol	-	-	Freq	Zumwalt	JCP	7	(1939)	87
		10200-10700	G	3d harmonic O-H	Zumwalt	JACS	62	(1940)	305
		-	-	Rotational iso	Kuhn	ZAC	170	(1959)	106
C_2H_5Cl	Chloroethane	2.5- μ	L	Spec	Ellis	PR	23	(1924)	48
		-	L	Freq, Assign	West	TFS	27	(1931)	145
		1.5-15 μ	-	Assign	Cross	JCP	1	(1933)	48
		-	-	Theoretical	Cross	JCP	1	(1933)	350
		-	-	Assign, Thermo	Linnett	TFS	36	(1940)	527
		-	-	Assign	Sheppard	JCP	17	(1949)	79
		-	-	Freq	Sheppard	TFS	46	(1950)	429
		-	-	Freq	Mizushima	JCP	21	(1953)	215
		2-38 μ	G,L	IR, Spec, Assign, Thermo	Daasch	JCP	22	(1954)	1293
		-	-	Iso, Freq	Brown	TFS	50	(1954)	1164
		-	G	Ident	Moore	JACS	76	(1954)	5253
		2-15 μ	G	Spec	Lacher	JPC	60	(1956)	492
		2-15 μ	G	Spec	Pierson	AC	28	(1956)	1218
		750-3010	G	Struct	Dixon	SA	9	(1957)	59
		8780 Mc/sec	G	Temp effect	Krishnaji	PPSL	70B	(1957)	621
		8780 Mc/sec	G	Spec, Freq	Krishnaji	PR	106	(1957)	1186
		-	-	Freq	Nakamura	JCP	26	(1957)	970
		7.82 μ	L	Relative absorbance	Curry	AC	31	(1959)	960
		-	G	Microwave spec	Srivastava	PPSL	74	(1959)	401
$C_2H_5Cl^{35}$	Chloroethane (isotopic)	-	G	Microwave	Wagner	JCP	22	(1954)	1459

		20000-32000 Mc	G	Spec, Mol consts, Struct	Wagner	JCP	26	(1957)	1588
$C_2H_5Cl^{37}$	Chloroethane (isotopic)	-	G	Microwave	Wagner	JCP	22	(1954)	1459
		19000-21000 Mc	G	Spec, Mol consts, Struct	Wagner	JCP	26	(1957)	1588
C_2H_5ClO	Ethylene chlorohydrin	-	-	Freq	Zumwalt	JCP	7	(1939)	87
		-	-	H bond, Freq	Badger	JCP	8	(1940)	288
		10200-10700	G	3d harmonic O-H	Zumwalt	JACS	62	(1940)	305
		-	L,G	Freq, FC, Iso	Mizushima	JCP	19	(1951)	1477
		3	Sol	Freq	Kuhn	JACS	74	(1952)	2492
		-	-	Iso	Mizushima	JACS	74	(1952)	1378
		-	S,L,G, Sol	Config	Mizushima	JPC	56	(1952)	324
		-	-	Product rule	Mizushima	JCP	21	(1953)	215
		3.18 μ	Sol,L	Microwave, H bond	Bhattacharya	IJP	33	(1959)	498
		-	L,G,S	Spec, NCA, Config	Hayashi	NKZ	80	(1959)	1073
		-	G	Spec, Config	Hayashi	NKZ	80	(1959)	1079
		-	-	Iso	Kuhn	ZAC	170	(1959)	106
$C_2H_5ClO_2S$	Ethanesulphonyl chloride	-	-	Spec, Assign	Geiseler	ZE	63	(1959)	1140
C_2H_5ClS	Monochloromethyl methyl sulphide	-	S,L,G	Spec, NCA, Config	Hayashi	NKZ	80	(1959)	1073
		-	G	Spec, Config	Hayashi	NKZ	80	(1959)	1079
$C_2H_5Cl_2OP$	Ethyldichlorophosphinite	-	-	Freq	Bellamy	JCS	-	(1952)	1701
$C_2H_5Cl_2OP$	Phosphorylethyl chloride	-	-	Freq, Spec	Popov	ZOK	29	(1959)	1998
$C_2H_5Cl_2OPS$	Ethyl phosphorodichloridothionate	740-1500	L	Assign	McIvor	CJC	37	(1959)	869
$C_2H_5Cl_2OPS$	Phosphorylthioethoxy	-	-	Freq, Spec	Popov	ZOK	29	(1959)	1998
$C_2H_5Cl_2OPS$	Thiophosphorylethoxy chloride	-	-	Freq, Spec	Popov	ZOK	29	(1959)	1998
$C_2H_5Cl_2O_2P$	Ethyl dichlorophosphinate	700-1330	Sol	Spec, Freq	Bellamy	JCS	-	(1952)	475
$C_2H_5Cl_2O_4B$	Ethylene dichloroacetyl-	6-14 μ	L	Assign, Struct	Blau	JCS	-	(1960)	380

$C_2H_5Cl_2P$	Ethyldichlorophosphine	2-21μ	L	Spec	Daasch	AC	25	(1957)	[illegible]
$C_2H_5Cl_2PS$	Ethyl phosphonothionyl dichloride	-	-	IR	Hooge	RTC	77	(1958)	911
		740-1500	L	Assign	McIvor	CJC	37	(1959)	869
$C_2H_5Cl_3OSi$	Trichlorosilylmethyl methyl ether	-	-	Induction effect	Josien	CPR	249	(1959)	826
$C_2H_5Cl_3Si$	Ethyltrichlorosilane	2-16μ	Sol	Freq, Spec, Struct	Smith	SA	16	(1960)	87
C_2H_5F	Fluoroethane	2-23μ	G,L	IR, Spec, Assign	Smith	JCP	20	(1952)	847
		-	-	Microwave	Kraitchman	JCP	23	(1955)	184
		-	-	Freq	Sheppard	JCP	23	(1955)	582
		400-4000	G	Spec, Iso	Bak	ACS	12	(1958)	2021
		200-300	G	Spec, Assign	Catalano	JPC	62	(1958)	873
		0-80 Mc	G	IR	Verdier	JCP	29	(1958)	340
		-	G	Microwave spec, Struct	Bak	SA	16	(1960)	376
C_2H_5FO	1-Hydroxy-2-fluoroethane	-	-	Iso	Kuhn	ZAC	170	(1959)	106
C_2H_5I	Ethyl iodide	0.8-2μ	L	Magnetic rotation	Ingersoll	JOSA	6	(1922)	663
		2.5μ	L	Spec	Ellis	PR	23	(1924)	48
		0.8-3μ	L	Spec, Freq	Spence	PR	34	(1929)	730
		1.5-15μ	-	Assign	Cross	JCP	1	(1933)	48
		-	-	Theoretical	Cross	JCP	1	(1933)	350
		1-13μ	L	Spec, Struct	Plum	JCP	5	(1937)	172
		-	-	Band freq	Fugassi	JPC	46	(1942)	630
		-	-	Assign	Sheppard	JCP	17	(1949)	79
		6000-9500	L	Spec, Freq	Lauer	APS	6	(1952)	29
		2-26μ	Sol	Spec	Schular	JCP	22	(1954)	947
		-	G	Microwave spec	Kasuya	JPSJ	14	(1959)	980
		-	G	Microwave spec	Kasuya	JPSJ	15	(1960)	296
		-	G	Microwave spec	Kasuya	JPSJ	15	(1960)	1273
C_2H_5IO	1-Hydroxy-2-iodoethane	-	-	Iso	Kuhn	ZAC	170	(1959)	106
C_2H_5N	Ethylenimine	-	-	Spec, Struct	Eyster	JCP	6	(1938)	576
		2.9-3.5μ	Sol	Spec	Thompson	JCS	-	(1944)	301
		-	-	FC	Richards	TFS	44	(1948)	40
		4000-650	G,L	Spec, Assign	Hoffman	JACS	73	(1951)	3028
		600-3300	G,L	IR, Spec, Assign	Thompson	TFS	47	(1951)	951
		-	-	Comparison	Stolberg	JACS	75	(1953)	5045
		-	G	Microwave	Turner	JCP	21	(1953)	564
		-	G	Microwave	Wilcox	JCP	21	(1953)	563

		-	-	Ident	Brown	JACS	76	(1954)	2537
		-	-	Microwave, Struct	Turner	JCP	23	(1955)	1966
C_2H_5NO	Acetaldehyde oxime	-	-	Freq	Barnes	IEC	15	(1943)	659
C_2H_5NO	Acetamide	2.7-3.7μ	S	H bond	Buswell	JACS	62	(1940)	2759
		-	-	FC	Linnett	TFS	41	(1945)	223
		-	-	FC	Richards	TFS	44	(1948)	40
		625-4000	Sol	Spec	Davies	TFS	47	(1951)	1170
		3300	L	Freq, H bond	Davies	JCP	20	(1952)	342
		-	Sol	Spectrum	Badger	PNAS	40	(1954)	12
		-	S	H bond	Pimental	JCP	24	(1956)	639
		400-2000	-	H bond	Albert	JCP	29	(1958)	1193
		-	Sol	Freq, I	Brown	JPC	63	(1959)	1324
		700-3800	-	Assign, Struct	Spinner	SA	15	(1959)	95
		2-9μ	Sol	Spec, Freq	Jeneks	ABB	88	(1960)	193
$C_2H_5NO.HCl$	Acetamide hydrochloride	700-3800	Sol	Assign	Spinner	SA	15	(1959)	95
C_2H_5NO	N-methylformamide	3200-3500	Sol	Spec	Badger	PNAS	40	(1954)	12
		-	L,S	I	Robson	JACS	77	(1955)	498
		1200-8000	Sol	Assign, Freq	Hecht	PRS	235	(1956)	174
		400-3600	S,L,G	Spec, Assign	Miyazawa	JCP	24	(1956)	408
		3μ	Sol	cis-trans bands	Russell	SA	8	(1956)	138
		450-3500	L,G,Sol	Config, Assign, Spec	Jones	JMS	2	(1958)	581
		900-1800	G,L,Sol	Freq, Struct	Parsons	JMS	2	(1958)	566
		2900-3500	S,L	Freq, I	Miyazawa	JMS	4	(1960)	168
$C_2H_5NO_2$	Acetohydroxamic acid	700-4000	S,Sol	Spec, H bond	Hadzi	SA	10	(1958)	38
$C_2H_5NO_2$	Ethyl nitrite	-	-	Band freq	Fugassi	JPC	46	(1942)	630
		2-23μ	G	Iso	D'or	JCP	19	(1951)	1064
		2-25μ	G	Iso	Tarte	JCP	20	(1952)	1570
		5.5-14.5μ	G	Spec	Levy	JACS	75	(1953)	1801
		-	G	Analysis	Levy	JACS	76	(1954)	3254
		-	G,Sol	Assign, Iso	Haszeldine	JCS	-	(1955)	4172
		-	G,Sol	Freq	O'Sullivan	JCS	-	(1957)	4144
$C_2H_5NO_2$	Glycine	-	-	Solubility theory	Kirkwood	JCP	2	(1934)	351
		-	-	H bond	Freymann	JCP	6	(1938)	497
		2.7-3.7μ	S	H bond	Buswell	JACS	62	(1940)	2759
		2.8-3.6μ	S	Spec, Assign, FC	Kellner	PRS	177	(1940)	447
		600-4000	Sol	Spectrum	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

		3-15 μ	S	Low temperature effect	Walsh	JCP	18	(1950)	592
		650-4000	S	Spec, Struct	Blout	JACS	74	(1952)	1946
		3060-3290	S	IR	Abbott	PRS	219	(1953)	17
		2-15.3 μ	S	Spec	Hacskaylo	AC	26	(1954)	1410
		1605	-	Freq, Bond length	Margoshes	JCP	22	(1954)	381
		-	S	Reflection spectrum	Robinson	AC	27	(1955)	162
		600-400	S	Ident	Epp	AC	29	(1957)	1283
		667-5000	-	Spec, Freq, Struct	Leifer	JACS	79	(1957)	5098
		400-1800	S	Assign	Tsuboi	SA	12	(1958)	253
		-	-	Ident	Nakamura	NKZ	80	(1959)	118
		2-10 μ	Sol	Spec	Ellenbogen	BBA	39	(1960)	174
		6-11 μ	Sol	Spec	Parker	N	187	(1960)	386
		909-1538	Sol	Spec	Parker	SA	16	(1960)	910
		1350-1550	-	Spec, Ident	Watson	SA	16	(1960)	1322
$C_2H_5NO_2.HCl$	Glycine hydrochloride	5-10 μ	Sol	Spec, Assign	Klotz	JPCC	52	(1948)	961
		400-1800	S	Assign	Tsuboi	SA	12	(1958)	253
$C_2H_5NO_2$	Methylurethane	-	-	FC, H bond	Davies	JCP	20	(1952)	1342
$C_2H_5NO_2$	Nitroethane	800-1950	-	Spec	Barnes	IEC	15	(1943)	659
		2-15 μ	-	Spec	Nielsen	IEC	15	(1943)	609
		2-22 μ	G,L	IR, Assign	Smith	JCP	18	(1950)	706
		2-15 μ	L	Spec, Solvent	Pristera	APS	6	(1952)	29
		-	L	I, Freq	Haszeldine	JCS	-	(1953)	2525
		1600-1800	G	NO_2-C_2H_5OH reaction	Nightingale	JCP	21	(1953)	1398
		-	-	Freq	Levy	JACS	77	(1955)	2015
		2-15 μ	G	Spec	Pierson	AC	28	(1956)	1218
$C_2H_5NO_2$	O-Methylformhydroxamic acid	450-4000	S,L,G, Sol	Struct	Parsons	JMS	2	(1958)	566
$C_2H_5NO_3$	Ethyl nitrate	1-7.5 μ	L	Spec, Assign	Plyler	PR	34	(1929)	599
		3.35-14.23 μ	-	I	Jander	JCS	-	(1954)	919
		-	G	Analysis	Levy	JACS	76	(1954)	3254
		-	G	Freq	Boschan	CR	55	(1955)	485
		2-15 μ	-	Spec	Needham	PRS	232	(1955)	337
		2-15 μ	G	Spec	Pierson	AC	28	(1956)	1218
$C_2H_5NO_3$	β-Nitroethanol	850-1600	-	Spec	Barnes	IEC	15	(1943)	659
		3 μ	Sol	Freq, H bond	Flett	SA	10	(1958)	21
C_2H_5NS	Thioacetamide	700-3800	-	Assign, Struct	Spinner	SA	15	(1959)	95
		650-3100	S	Freq	Rosenthal	JACS	82	(1960)	4169

C_2H_5NSi	Methylsilyl cyanide	400-4000	G	Spec, Assign	Ebsworth	JCS	-	(1958)	1453
$C_2H_5N_3O_2$	Biuret	0-15 μ	S,Sol	H bond	Kumler	JACS	82	(1960)	6305
		-	S,Sol	Struct	Sukhorukov	OS	9	(1960)	330
$C_2H_5N_5$	1-methyl-5-aminotetrazole	2-6.6 μ	S	Band freq	Murphy	JOC	19	(1954)	1807
$C_2H_5N_5$	5-Methylaminotetrazole	2-6.6 μ	S	Band freq	Murphy	JOC	19	(1954)	1807
C_2H_5OPS	Thiophosphoethane	-	-	Struct	Kinnear	JCS	-	(1952)	3437
$C_2H_5O_3S$	Ethanesulphonate	500-4000	S	Freq, Struct	Fujimori	BCSJ	32	(1959)	850
$C_2H_5O_3B$	Ethylenehydrogenborate	3-14 μ	S,L	Struct, Freq	Blau	JCS	-	(1960)	380
		6-14 μ	L,S	Assign, Struct	Blau	JCS	-	(1960)	380
$C_2H_5O_4P$	Monoacetyl phosphite	2-15 μ	S	Struct	Cade	JCS	-	(1960)	1948
C_2H_5PS	Monoacetyl phosphite	-	-	IR	Hooge	RTC		(1958)	
$C_2H_5PS_2$	Dithiophosphoethane	-	-	Struct	Kinnear	JCS	-	(1952)	3437
C_2H_6	Ethane	2-14 μ	G	Bands	Levin	JOSA	16	(1928)	137
		-	-	Freq	Bonino	TFS	25	(1929)	876
		-	-	C-H linkage heat	Ellis	PR	33	(1929)	27
		-	-	Normal vibration	Kettering	PR	36	(1930)	531
		-	G	No absorption	Badger	PR	38	(1931)	1442
		-	G	Thermo	Mayer	JACS	55	(1933)	37
		-	G	Assign	Adel	JCP	7	(1934)	627
		-	-	Freq	Mecke	TFS	30	(1934)	200
		-	-	Quant mech	Penney	TFS	31	(1935)	734
		-	-	FC	Sutherland	PRS	148	(1935)	250
		-	G	Thermo	Teler	JCP	3	(1935)	876
		-	G	Freq	Teler	JCP	3	(1935)	885
		-	-	Thermo	Beeck	JCP	4	(1936)	680
		-	G	Freq, Assign	Funke	PR	49	(1936)	100
		-	-	Thermo	Kassel	JCP	4	(1936)	276
		-	-	Thermo	Kassel	JCP	4	(1936)	435
		-	-	Kinetics	Morikawa	JACS	58	(1936)	1795
		-	-	Thermo	Wilson	JCP	4	(1936)	526
		900-3200	G	Freq assign	Benediet	JCP	5	(1937)	1
		-	-	FC, IR	Bonner	JCP	5	(1937)	203

-	G	Freq assign	Edsall	JCP	5	(1937)	225
-	-	Quant mech	Glockler	JCP	5	(1937)	813
-	-	Freq assign, Quant mech	Howard	JCP	5	(1937)	442
-	-	Quant mech	Howard	JCP	5	(1937)	451
3-15 μ	G	Spec, Assign	Crawford	JCP	6	(1938)	682
-	-	Freq assign	Wall	JACS	60	(1938)	71
-	-	Quant mech	Wilson	JCP	6	(1938)	740
-	-	Assign	Barker	JCP	7	(1939)	277
-		Quant mech	Gorin	JCP	7	(1939)	633
-	-	Vibrational analysis	Stitt	JCP	7	(1939)	297
-	-	Hindered rotation	Langseth	JCP	8	(1940)	415
-	-	FC	Linnett	JCP	8	(1940)	91
-	-	Freq, Thermo	Pitzer	JCP	8	(1940)	711
-	G	Thermo	Pitzer	CR	27	(1940)	39
-	-	FC	Crawford	JCP	9	(1941)	69
-	-	Vibrational analysis	Crawford	JCP	9	(1941)	323
-	-	Assign	Guggenheim	TFS	37	(1941)	97
-	-	FC	Linnett	TFS	37	(1941)	469
-	-	Freq, Thermo	Thompson	TFS	37	(1941)	344
2-14 μ	G	Spec, Assign	Avery	JCP	10	(1942)	10
12 μ	-	Spec	Owens	JCP	10	(1942)	146
-	-	Thermo	Pitzer	JCP	10	(1942)	605
827-2753	G	Struct	Smith	PR	61	(1942)	386
-	-	Freq	Barnes	IEC	15	(1943)	659
-	-	Ratio rule	Noether	JCP	11	(1943)	97
-	-	Internal rotation	Aston	JCP	12	(1944)	336
-	-	FC	Linnett	TFS	41	(1945)	223
-	-	Assign, FC	Ahonen	JCP	14	(1946)	623
-	-	Potential barrier	French	JCP	14	(1946)	389
-	-	FC, Bond distances	Gordy	JCP	14	(1946)	305
-	-	Analysis	Lee	IEC	18	(1946)	659
-	-	FC	Walsh	TFS	42	(1946)	779
-	-	Spec	Coggeshall	JCP	15	(1947)	65
-	-	Thermo, Quant mech	Halford	JCP	15	(1947)	364
-	-	Product rule	Pace	JCP	15	(1947)	528
-	-	FC	Ramsay	PRS	190	(1947)	562
-	G	Pressure broadening	Seyfried	IEC	19	(1947)	298
-	-	FC	Walsh	TFS	43	(1947)	60
-	-	I	Thorndike	JCP	15	(1947)	868
-	-	Quant mech	Decius	JCP	16	(1948)	1025
-	-	Internal rotation	Lassettre	JCP	16	(1948)	151
-	-	Assign	Ramussen	JCP	16	(1948)	712
-	-	FC	Gates	JCP	17	(1949)	393
-	G	IR	Ginsberg	PR	75	(1949)	1317
-	-	Hindered rotation	Lassettre	JCP	17	(1949)	317

		-	-	Spec, Assign	Posey	JCP	17	(1949)	182
		-	-	Quant mech	Simanouti	JCP	17	(1949)	734
		1.6-13μ	G	Spec, Assign	Smith	JCP	17	(1949)	139
		-	-	Shape of bands	Walsh	JCP	17	(1949)	8382
		-	-	Thermo	Blade	JCP	18	(1950)	630
		-	-	Normal vibration models	Krishnamurty	JCP	18	(1950)	1411
		-	-	Freq	El-Sabban	JCP	20	(1952)	1810
		1500	G	FC	Hansen	JCP	20	(1952)	313
		-	-	Bond length, FC	Jones	PRS	211	(1952)	285
		2-16μ	G	Spec	Patterson	APS	6	(1952)	17
		200-3000	-	Assign	Smith	JCP	20	(1952)	847
		-	G	Emission	Talley	JOSA	42	(1952)	982
		2-16μ	G	Spec	Thompson	JPC	56	(1952)	243
		-	-	Bond distances	Huggins	JACS	75	(1953)	4126
		-	-	Freq	Daasch	JCP	22	(1954)	1293
		-	-	$\delta(CH_2)$ compared	Corish	JCS	-	(1955)	2431
		-	-	Freq correlation	Sheppard	JCP	23	(1955)	582
		1379	-	Freq	Sheppard	TFS	51	(1955)	1465
		-	-	Pot barrier	Bak	JCP	24	(1956)	918
		2-15μ	G	Spec	Lacher	JPC	60	(1956)	492
		-	-	Vibrational interactions	Meal	JCP	24	(1956)	1126
		2-15μ	G	Spec	Pierson	AC	28	(1956)	1218
		-	-	I, NCA	Nyquist	JCP	26	(1957)	552
		2900-3120	G	Struct, Mol consts	Allen	JACS	80	(1958)	2673
		2730-2770	G	Spec	Allen	JCP	31	(1959)	1062
		-	-	Absorption	Singleton	DA	19	(1959)	2372
		700-3500	L	Freq, Spec	Comeford	JMS	5	(1960)	474
$C_2H_6DO_2B$	Dimethoxyborane-d_1	2-15μ	G	Spec, Freq, Assign	Lehmann	JCP	30	(1959)	1215
$C_2H_6D_2IN$	Dimethylammonium iodide-d_2	400-4000	S	Assign	Ebsworth	SA	13	(1959)	261
$C_2H_6D_2Si$	Dimethylsilane-d_2	400-3500	G	Assign	Ball	SA	16	(1960)	1358
$C_2H_6D_4B_2$	1,2-Dimethyldiborane-d_4	2-15μ	G	Spec, Assign	Lehmann	JCP	33	(1960)	590
$C_2H_6D_5NB_2$	N-Dimethylaminodiborane-d_5	2-20μ	G	IR, Spec, Assign	Mann	JCP	22	(1954)	70
		-	-	NCA	Breene	JCP	23	(1955)	97
C_2H_6BrB	Dimethylboro bromide	600-4000	G	Spec, Assign	Schabacher	ZAUA	294	(1958)	183
$C_2H_6Br_2Si$	Dimethyldibromosilane	-	-	Assign	Shimanouchi	JCP	18	(1950)	1306

		-	-	Assign, Freq	Tobin	JACS	75 (1953) 1788
		-	-	Assign, FC	Kriegsmann	ZE	62 (1958) 1033
C_2H_6ClOPS	Thiophosphorylmethoxymethyl chloride	-	-	Spec, Freq	Popov	ZOK	29 (1959) 1998
$C_2H_6ClO_2PS$	Thiophosphoryldimethoxy chloride	-	-	Spec, Freq	Popov	ZOK	29 (1959) 1998
$C_2H_6ClO_2B$	Chlorodimethoxyborane	2-15 μ	G	Spec, Freq assign	Lehmann	JCP	30 (1959) 1219
$C_2H_6ClO_3P$	Dimethyl chlorophosphonate	900-1060	Sol	Band freq	Halmann	JCS	- (1953) 626
$C_2H_6ClO_4B$	Ethylenechloroacetylborate	6-14 μ	L	Assign, Struct	Blau	JCS	- (1960) 380
$C_2H_6Cl_2NOP$	Dimethylaminophosphonyl-dichloride	-	-	Phosphoryl absorption	Bell	JACS	76 (1954) 5185
$C_2H_6Cl_2NOP$	Phosphonyldimethylamino chloride	-	-	Spec, Freq	Popov	ZOK	29 (1959) 1998
$C_2H_6Cl_2NPS$	Thiophosphonyldimethyl-amino chloride	-	-	Spec, Freq	Popov	ZOK	29 (1959) 1998
$C_2H_6Cl_2O_2Si$	Dimethoxydichlorosilane	2-25 μ	-	Assign	Forneris	ZE	62 (1958) 1130
$C_2H_6Cl_2Si$	Dichlorodimethylsilane	-	-	Assign	Shimanouti	JCP	18 (1950) 1306
		2-25 μ	G	Spec, Assign	Smith	JCP	21 (1953) 1997
		-	-	Assign	Tobin	JACS	75 (1953) 1788
		-	-	Assign, FC	Kriegsmann	ZE	62 (1958) 1033
		400-5000	Sol	Ident	Smith	AC	31 (1959) 1174
		-	L	NCA, Freq, Assign, Thermo	Shimizu	JMS	4 (1960) 214
		2-16 μ	Sol	Spec, Struct, Freq	Smith	SA	16 (1960) 87
$C_2H_6Cl_2Si$	Ethyldichlorosilane	-	G	Band freq	Richards	JCS	- (1949) 124
		2050-2250	Sol	Struct	Smith	SA	15 (1959) 412
$C_2H_6FO_2B$	Fluorodimethylborine	250-4000	-	Spec, Assign	Goubeau	ZPC	20 (1959) 15
$C_2H_6FO_3P$	Dimethyl fluorophosphonate	2-21 μ	L	Spec	Daasch	AC	23 (1951) 853
		-	-	Phosphoryl abosrption	Bell	JACS	76 (1954) 5185
$C_2H_6F_2Si$	Difluorodimethylsilane	-	-	Spec, Assign, FC	Kriegsmann	ZE	62 (1958) 1033

$C_2H_6F_3OB$	Boron trifluoride ethanol complex	2200-7600	-	Struct	Babushkin	OS	5 (1958)	256
$C_2H_6F_4O_2B_2$	Difluoromethylborine (dimer)	250-4000	-	Spec, Assign	Goubeau	ZPC	20 (1959)	15
$C_2H_6I_2O$	Acetone-iodine complex	1680-1740	Sol	Freq, I	Yamada	JACS	82 (1960)	1543
$C_2H_6N_2$	Acetamidine	450-4000	L	Spec, Struct	Davies	ZPC	20 (1959)	34
$C_2H_6N_2.HCl$	Acetamidine hydrochloride	450-4000	L	Spec, Struct	Davies	ZPC	20 (1959)	34
$C_2H_6N_2$	Azomethane	1-15 μ	G	Spec	West	JCP	6 (1938)	1
		-	-	Band freq	Fugassi	JPC	46 (1942)	630
$C_2H_6N_2O$	Acetamide oxime	2-15 μ	G	Spec	Pierson	AC	28 (1956)	1218
		900-3500	-	Freq	Hollander	JOC	23 (1958)	1112
$C_2H_6N_2O$	Azoxymethane	-	L	Group freq	Langley	JCS	- (1952)	4191
		-	-	Group freq	Jauder	JCS	- (1954)	919
$C_2H_6N_2O$	Dimethylnitrosamine	2-15 μ	L	Spec	Earl	JCS	- (1951)	2207
		5.75-9.95 μ	L,Sol	Group freq, I	Haszeldine	JCS	- (1954)	691
		3-15 μ	G,L,Sol	Spec, Association	Haszeldine	JCP	23 (1955)	979
		-	G,L,Sol	Assign	Haszeldine	JCS	- (1955)	4172
		1317-1490	G,L,Sol	Freq	Tarte	JCP	23 (1955)	979
$C_2H_6N_2O_2$	O,N-Dimethylnitramide	670-4000	L	Assign	Janathan	JMS	5 (1960)	101
$C_2H_6N_2O_2$	Nitrosomethane dimer	1450-1000	-	Spec, Assign, Struct	Gowenlock	JCS	- (1957)	3927
		-	-	Freq	Luttke	ZE	61 (1957)	976
$C_2H_6N_4O$	Guanylurea	-	S,Sol	Struct	Sukhorikov	OS	9 (1960)	330
$C_2H_6N_4S$	Guanidine thiocyanate	-	S	Freq	Pickard	JACS	76 (1954)	5169
$C_2H_6N_6O_3$	1-Methyl-5-nitramino-tetrazole	2-15 μ	-	Spec	Garrison	JOC	22 (1957)	278
$C_2H_6N_{10}.H_2O$	Tetracene	-	S	Band freq, Ident	Patinkin	JACS	77 (1955)	562
C_2H_6O	Acetone	-	G,L,Sol	Solvent effect	Bayliss	AJC	8 (1955)	26

		-	G	Freq	Tarte	JCP	26	(1957)	962
		150-420	G	Spec	Mashiko	JPC	62	(1958)	367
		-	L	Spec, Freq	Mashiko	NKZ	79	(1958)	470
		-	-	Mol consts, Struct	Kasai	JCP	30	(1959)	1096
		-	-	Assign	Michinori	BCSJ	32	(1959)	950
		3000	-	Freq assign	Nukada	NKZ	80	(1959)	976
		12.4-26.5 KMc/sec	-	Mol consts	Schafer	DA	19	(1959)	2631
		700-4000	L,Sol	Freq	deMaine	CJC	38	(1960)	1921
		-	-	Freq, Assign	Mirone	AC	50	(1960)	1095
C_2H_6O	Dimethyl ether	10.3-11.2μ	G	Spec	Bennett	JACS	51	(1929)	377
		-	-	Freq	Mecke	TFS	30	(1934)	200
		-	-	FC, IR	Bonner	JCP	5	(1937)	293
		2.5-22.5μ	G	Freq assign	Crawford	JCP	7	(1937)	307
		3.3μ	G	Ext coefficient	Williams	JAP	8	(1937)	497
		-	G	Spec	Thompson	JCP	7	(1939)	441
		-	-	Thermo	Kistiokowsky	JCP	8	(1940)	618
		-	-	Band freq	Fugassi	JPC	46	(1942)	630
		-	-	Thermo	Pitzer	JCP	10	(1942)	605
		-	-	Internal rotations	Aston	JCP	12	(1944)	336
		-	-	FC	Linnett	TFS	41	(1945)	223
		-	-	Potential barrier	French	JCP	14	(1946)	389
		-	-	FC	Ramsay	PRS	190	(1947)	562
		20-37μ	G	Freq	Hyde	JCP	16	(1948)	744
		-	-	Analysis	Claiborne	AC	21	(1949)	1165
		-	-	Theory, FC	Sheline	JCP	18	(1950)	602
		2-40μ	G	Spec	Dudley	JACS	78	(1956)	290
		2-15μ	G	Spec	Pierson	AC	28	(1956)	1218
		400-3000	S	Spec, IR, Freq	Mashiko	JPC	62	(1958)	367
C_2H_6O	Ethanol	.776-2.83μ	L	Transmission	Nichols	PR	1	(1893)	1
		-	L	Perm. to heat rays	Rubens	WA	64	(1898)	602
		2-6μ	L	Spectrometer	Gorton	PR	7	(1916)	66
		0.6-1.35μ	L	a_M variable with conc.	Hulburt	JPC	21	(1917)	150
		52μ	L	Total absorption	Hollangel	PR	11	(1918)	505
		0.8-2.0μ	L	Magnetic rotation	Ingersoll	JOSA	6	(1922)	663
		3.3μ	L	Freq	Meyer	PR	21	(1923)	712
		-	L	Ext coefficient, Refraction index	Tear	PR	21	(1923)	611
		108μ	L	Reflection factors	Weniger	JOSA	7	(1923)	517
		1-2.5	L	Spec	Smith	JACS	48	(1926)	1512
		2850-3050	G	Freq	Meyer	JOSA	15	(1927)	257

-	-	Freq	Bonino	TFS	25	(1929)	876
0.8-2.5μ	L	Spec	Sappenfield	PR	33	(1929)	37
-	-	Mech models of vibrations	Kettering	PR	36	(1930)	531
-	-	Vibration theory, Heat capacity	Lewis	PR	36	(1930)	568
-	-	Spec, Assign	Plyler	PR	35	(1930)	605
-	-	Vibration theory	Yates	PR	36	(1930)	555
-	-	Theoretical on directed valence	Cross	JCP	1	(1933)	350
3-5.4μ	L	Spec	Plyler	JCP	2	(1934)	565
6900-7300	Sol	Spec	Wulf	JACS	57	(1935)	1464
-	G	Spec	Badger	JCP	4	(1936)	711
52-152μ	L,Sol	Dispersion	Cartwright	PRS	154	(1936)	138
2.4-5.0μ	L	Association bands	Williams	JOSA	26	(1936)	149
4-5.2μ	-	Spec	Williams	JCP	4	(1936)	251
9000-11000	Sol	Spec, H bond	Badger	JCP	5	(1937)	369
9000-11000	L	Spec, H bond	Badger	JCP	5	(1937)	839
4-8μ	L	No exchange reaction evidence	Barr	PR	51	(1937)	685
-	-	FC	Bonner	JCP	5	(1937)	293
2800-3700	L,Sol	Spec, H bond	Buswell	JCP	5	(1937)	501
2800-3700	Sol	H bond, Spec	Errera	TFS	33	(1937)	120
-	G,Sol	Ext coeff	Fox	PRS	162	(1937)	419
2.55-3.15μ	L	Solvent effect	Gordy	PR	51	(1937)	564
0.9-4.0μ	G,L,Sol	Spec, H bond	Kinsey	JCP	5	(1937)	399
-	-	Freq	Ellis	JCP	6	(1938)	497
3100-7500	Sol	Spec, H bond	Errera	TFS	34	(1938)	728
-	-	H bond	Freyman	JCP	6	(1938)	497
-	-	Thermo	Schumann	JCP	6	(1938)	480
6.9-11.2μ	L	Calibration wavelengths	Shearin	JOSA	28	(1938)	61
2-12μ	L	Association	White	PR	53	(1938)	932
4.75μ	Sol	Effect on H_2O absorption	Barr	JCP	7	(1939)	8
8800-10500	L	Photographic H bond	Thompson	JACS	61	(1939)	1396
-	-	Freq, Association	Davies	TFS	36	(1940)	333
3μ	Sol	Spec, H bond	Errera	JCP	8	(1940)	63
-	-	Thermo	Aston	JCP	11	(1943)	532
1050-1800	-	Spec	Barnes	IEC	15	(1943)	659
-	-	Hindered rotation	Aston	JCP	12	(1944)	336
-	-	Vibration analysis	Carter	JCP	14	(1946)	32
-	-	Vibration analysis	Kron	JCP	14	(1946)	19
2.6-3.5μ	Sol	Association bands	Coggeshall	JACS	69	(1947)	1620
3μ	Sol	Comparison	McKinley	JACS	69	(1947)	1624
-	-	FC	Ramsay	PRS	190	(1947)	562

-	-	Beer's law	Anderson	AC	20	(1948)	998
2-40μ	G	Spec	Plyler	PR	74	(1948)	1247
-	-	FC	Richards	TFS	44	(1948)	40
3-4.7μ	Sol	Optical density	Saier	AC	20	(1948)	812
-	Sol	H bond	Baker	JCS	-	(1949)	24
-	-	Thermo	Halford	JCP	17	(1949)	111
2.6-3.8μ	Sol	Spec, H bond	Coggeshall	AC	22	(1950)	381
-	-	Hindered rotation	Halford	JCP	18	(1950)	361
720-750	L	Band freq	Wiberly	AC	22	(1950)	841
2.7-3.2μ	Sol	H bond, Spec	Coggeshall	JACS	73	(1951)	5414
2.7μ	Sol	Rate of loss from dil CCl_4 sol	Meeks	AC	23	(1951)	792
2800-3000	Sol	Freq, Spec	Pozefsky	AC	23	(1951)	1611
700-4000	G	Spec, Assign, Thermo	Barrow	JCP	20	(1952)	1739
2-16μ		Spec, Ident	Bergstrom	JACS	74	(1952)	145
15-25μ	L	Opaque	Morrison	JSI	29	(1952)	233
2-38μ	G,L,Sol	Spec, Assign	Plyler	JRNB	48	(1952)	281
-	-	Ident	Cairns	JOC	18	(1953)	748
-	L	Analysis	Cristol	JACS	75	(1953)	2647
-	Sol	Spec, Freq, H bond	Haszeldine	JCS	-	(1953)	1757
-	-	Freq	Mizushima	JCP	21	(1953)	215
1600-1800	G	NO_2-C_2H_5OH reaction	Nightingale	JCP	21	(1953)	1398
665-5000	L	Freq	Zeiss	JACS	75	(1953)	897
10536	Sol	Freq	Josien	JCP	22	(1954)	1169
2-15.5μ	L,G	Spec, H bond	Laubengayer	JACS	76	(1954)	5985
3000-3800	Sol	Spec, H bond	Brealey	JACS	77	(1955)	4462
2.6-3.4μ	-	I, H bond	Mizushima	SA	7	(1955)	100
2-15μ	G	Spec	Pristera	AC	27	(1955)	457
-	-	Freq	Sheppard	JCP	23	(1955)	582
-	-	Freq	Finch	JCP	24	(1956)	908
2-15μ	G	Spec	Pierson	AC	28	(1956)	1218
2.5-11μ	Sol	Spec	Potts	AC	28	(1956)	1255
350-4000	G,L,Sol	Spec	Stuart	JCP	24	(1956)	559
1400-1600	Sol	Mol association	Ens	CJC	35	(1957)	170
2-15μ	G	Spec	Friedel	AC	29	(1957)	1362
-	Sol	H bond, Mol association	Coburn	JACS	80	(1958)	1318
3μ	Sol	Freq, H bond	Flett	SA	10	(1958)	21
3μ	Sol	H bond	Liddle	SA	10	(1958)	70
3100-3550	Sol	H bond	Lund	ACS	12	(1958)	298
3200-3800	Sol	Spec, H bond	Mukherjee	JPC	62	(1958)	1311
6000-10000	Sol	H bond	Bell	JCP	31	(1959)	300
3570-3700	Sol	Freq, I, H bond	Flynn	AJC	12	(1959)	575
2800-3600	Sol	Effect of NaI on spec	Price	PRS	255	(1960)	5

C_2H_6OS	Dimethyl sulfoxide	650-4000	G,Sol	Assign, Spec	Cotton	JPC	64	(1960)	1534
C_2H_6OS	2-Mercaptoethanol	8800-10100	L,Sol	H bond	Thompson	JACS	61	(1939)	1396
		-	-	Iso	Kuhn	ZAC	170	(1959)	106
$C_2H_6O_2$	Ethylene glycol	-	-	Freq, Ext coefficient	Bonino	TFS	25	(1929)	876
		-	G	Spec	Badger	JCP	4	(1936)	711
		-	-	Spec, H bond	Barnes	JCP	4	(1936)	722
		2.6-3.2 μ	Sol	H bond	Wall	JACS	61	(1939)	2679
		1050-1750	-	Spec	Barnes	IEC	15	(1943)	659
		-	-	FC	Linnett	TFS	41	(1945)	223
		-	-	Relative bond strength	Gordon	JACS	71	(1949)	1245
		2800-3000	Sol	Freq, Spec	Pozefsky	AC	23	(1951)	1611
		3 μ	Sol	Freq	Kuhn	JACS	74	(1952)	2492
		700-1500	L	Ident, Spec	Shay	AC	26	(1954)	652
		2.5-10.5 μ	Sol	Spec	Potts	AC	28	(1956)	1255
		700-1600	L	Config	Kuroda	JPS	26	(1957)	323
		25000 Mc	G	Spec	Boullet	CPR	246	(1958)	2364
		3000-7100	S,L,Sol	H bond, Freq, Config	Malyshev	IANS	22	(1958)	1107
		2.5-3.5 μ	-	No of OH groups in steroid molecule	Kabasakalian	AC	31	(1959)	375
		-	-	Rot, Iso	Kuhn	ZAC	170	(1959)	106
		2-15 μ	L	Spec	Miyake	BCSJ	32	(1959)	1381
		3000	-	Freq, Assign	Nakada	NKZ	80	(1959)	976
		837-1131	Sol	Analysis	Pinchas	AC	31	(1959)	1742
		10-16 μ	L,S	Assign, Struct	White	JPS	41	(1959)	369
		7-14 μ	L	Freq	Miyake	JACS	82	(1960)	3040
$C_2H_6O_2$	Ethyl hydroperoxide	-	L	Ident, Group freq	Gray	JCS	-	(1952)	3150
		5-15 μ	Sol	Spec, Peroxide bands	Minkoff	PRS	224	(1954)	176
$C_2H_6O_2$	Methyl peroxide	8.19-10.7 μ	-	Ident	Everett	TFS	52	(1956)	986
$C_2H_6O_2PK.XH_2O$	Potassium dimethylphosphinate xhydrate	687-3200	S	Table I, Group freq	Corbridge	JCS	-	(1954)	4555
$C_2H_6O_2S$	Dimethyl sulfone	1150	Sol	Freq	Rogers	JACS	78	(1956)	1790
		500-4000	S	Spec, NCA, Assign	Fujimori	BCSJ	32	(1959)	1374
$C_2H_6O_2Se$	Ethylseleninic acid	-	S	Spec, Assign	Paetzold	ZAUA	305	(1960)	78
		-	S,Sol	Spec, H bond	Paetzold	ZAUA	305	(1960)	88
$C_2H_6O_2Se.HCl$	Ethylseleninic acid hydrochloride	-	S,Sol	Spec, Assign	Paetzold	ZAUA	305	(1960)	98

$C_2H_6O_3$	1-Hydroxy-1-hydroperoxyethane	5-15μ	Sol	Spec, Peroxide bands	Minkoff	PRS	224	(1954)	176
$C_2H_6O_3$	Hydroxymethyl peroxide	5-15μ	Sol	Spec, Peroxide bands	Minkoff	PRS	224	(1954)	176
		9.0-9.7μ	-	Ident	Everett	TFS	52	(1956)	986
$C_2H_6O_3S$	Ethanesulphonic acid	1000-1500	Sol	Spec	Schreiber	AC	21	(1949)	1168
$C_2H_6O_3S$	Methyl sulphite	7-10μ	L	Assign, Correlation	Haszeldine	JCS	-	(1955)	2901
$C_2H_6O_3Se$	Ethylselenous acid	-	S	Spec, Freq	Simon	ZAUA	303	(1960)	72
$C_2H_6O_4$	Dihydroxymethyl peroxide	5-15μ	Sol	Spec, Peroxide bands	Minkoff	PRS	224	(1954)	176
$C_2H_6O_4S$	Dimethyl sulfate	1-8μ	L	Spec, Assign, Wave lengths	Plyler	PR	35	(1930)	305
		52-152μ	L	Trans dispers	Cartwright	PRS	154	(1936)	138
		100-1500	Sol	Spec	Schreiber	AC	21	(1949)	1168
C_2H_6S	Dimethyl sulfide	1.6-26μ	G	Spec, Freq, Assign	Fonteyne	JCP	8	(1940)	60
		-	-	Thermo	Osborne	JCP	8	(1940)	506
		600-6000	G	Spec, Assign, Thermo	Thompson	TFS	37	(1941)	38
		-	-	Thermo	Osborne	JACS	64	(1942)	169
		-	-	Internal rotations	Aston	JCP	12	(1944)	336
		-	-	FC	Linnett	TFS	41	(1945)	223
		-	-	CH_3 pot barrier, Thermo	French	JCP	14	(1946)	389
		-	-	FC, Bond distance	Gordy	JCP	14	(1946)	305
		500-1700	G	Assign, Spec	Trotter	JCS	-	(1946)	481
		-	-	Thermo	Binder	JCP	17	(1949)	499
		-	-	FC	Sheline	JCP	18	(1950)	602
		-	-	Freq	Sheppard	TFS	46	(1950)	429
		2800-3000	Sol	Freq, Spec	Pozefsky	AC	23	(1951)	1611
		-	-	Group freq	Brandt	JCS	-	(1952)	2549
		1325	-	Freq	Sheppard	TFS	51	(1955)	1465
		-	-	IR, Mass spec	Haines	JPC	60	(1956)	549
		200-1500	-	Freq, Struct, Assign	Scott	JACS	80	(1958)	3554
		-	-	Freq, Assign	Mirone	ANCR	50	(1960)	1095
		-	-	Mol consts	Rudolf	ZN	15a	(1960)	742
C_2H_6S	Ethyl mercaptan	.6-2.8μ	L	S-H study	Ellis	JACS	50	(1928)	2113
		500-1700	G	Assign, Spec	Trotter	JCS	-	(1946)	481
		700-1500	G	Spec, Assign	Sheppard	JCP	17	(1949)	79
		-	-	IR, Freq, FC	Sheppard	TFS	46	(1950)	429
		2800-3000	Sol	Freq, Spec	Pozefsky	AC	23	(1951)	1611
		-	-	Freq, Thermo	Scott	JACS	73	(1951)	261
		-	-	Vib assign, Thermo	McCullough	JACS	74	(1952)	2801

		2-25μ	L	Spec	Haines	JPC	58	(1954)	270
		2-15μ	G	Spec, Threshold values	Pierson	AC	28	(1956)	1218
		2.8μ	Sol	Quant analysis	Matsuyama	AC	29	(1957)	196
		200-1500	-	Freq, Mol struct, Assign	Scott	JACS	80	(1958)	3554
		2310-2810	Sol	I	Spurr	JPC	62	(1958)	425
		2300-2700	L,Sol	Struct	Bulanin	OS	6	(1959)	754
$C_2H_6S_2$	Dimethyl disulphide	400-1700	L	Spec, Assign	Trotter	JCS	-	(1946)	481
		-	-	Freq	Sheppard	TFS	46	(1950)	429
		2800-3000	Sol	Spec, Freq	Pozefsky	AC	23	(1951)	1611
		-	-	Group freq	Brandt	JCS	-	(1952)	2549
		-	-	Ident of preps	Cairns	JOC	18	(1953)	748
		2-25μ	L	Spec	Haines	JPC	58	(1954)	270
		-	-	Freq, Assign	Hooge	RTC	77	(1958)	902
		200-1500	-	Freq assign, Mol struct	Scott	JACS	80	(1958)	3554
$C_2H_6S_3$	Methyl trisulfide	-	-	Ident	Cairns	JOC	18	(1953)	748
$C_2H_6S_5$	Methyl pentasulfide	-	-	Ident	Cairns	JOC	18	(1953)	748
C_2H_6Se	Dimethyl selenide	-	-	FC, Bond distances	Gordy	JCP	14	(1946)	305
		-	-	Theory FC	Sheline	JCP	18	(1950)	602
		1282	-	Freq	Sheppard	TFS	51	(1955)	1465
		2-40μ	-	Assign	Bergson	ARK	13	(1958)	11
C_2H_6Si	Vinylsilane	2-16μ	G	Spec, Group freq	Kaye	JOC	18	(1953)	1750
		-	-	Group freq, Thermo	Tannenbaum	JACS	75	(1953)	3753
		-	-	No band	Harvey	JACS	76	(1954)	4555
		2-16μ	G	Not shown	White	JACS	76	(1954)	3897
$C_2H_6Si_2$	Disilylacetylene	400-4000	G	Struct, Assign	Lord	SA	12	(1958)	147
C_2H_7ClSi	Chlorodimethylsilane	2050-2250	Sol	Freq	Smith	SA	15	(1959)	412
		2-16μ	Sol	Freq, Spec, Struct	Smith	SA	16	(1960)	87
C_2H_7N	Dimethylamine	6400-6800	Sol	NH band	Liddel	JACS	55	(1933)	3574
		-	-	Freq	Mecke	TFS	30	(1934)	200
		-	-	Freq, Assign	Edsoll	JCP	5	(1937)	225
		-	G	Assign, Spec	Cleaves	JCP	8	(1940)	784
		-	-	NH-FC	Linnett	TFS	41	(1945)	223
		-	-	Potential barrier	French	JCP	14	(1946)	389
		-	-	FC	Richards	TFS	44	(1948)	40
		2.8-4.7μ	Sol	Spec	Sternberg	JACS	75	(1953)	3148

		-	G	Freq	Mann	JCP	22 (1954)	70
		-	-	FC	Breene	JCP	23 (1955)	97
		-	G	Assign	Barr	JCS	- (1955)	4169
		-	Sol	Band freq, I, Ext coefficient	Russell	JCS	- (1955)	483
		400-4500K	G	Freq assign, FC	Barcelo	SA	8 (1956)	27
		600-4000	G	Spec, Principal bands	Heacock	CJC	34 (1956)	1782
		2-15μ	G	Spec, Threshold values	Pierson	AC	28 (1956)	1218
		2-15μ	G	Freq assign, NCA	Stewart	JCP	30 (1959)	1259
$C_2H_7N.HCl$	Dimethylamine hydrochloride	600-4000	Sol	Spec, Freq	Heacock	CJC	34 (1956)	1782
		2-8μ	-	Spec	Nakanishi	BCSJ	30 (1957)	403
		1350-1550	S	Spec, Ident	Watson	SA	16 (1960)	1322
C_2H_7N	Ethylamine	6400-6800	Sol	NH band	Liddle	JACS	55 (1933)	3574
		-	-	Freq, Assign	Edsall	JCP	5 (1937)	225
		-	-	Band at 2.9μ	Hine	JACS	76 (1954)	612
		2-12μ	Sol	Spec	O'Connor	JACS	76 (1954)	2368
		-	-	Freq correlation	Sheppard	JCP	23 (1955)	582
		2-15μ	G	Spec, Threshold value	Pierson	AC	28 (1956)	1218
		2-15μ	G	Freq (ν and δ), NCA	Stewart	JCP	30 (1959)	1259
$C_2H_7N.HBr$	Ethylamine hydrobromide	1000-3500	S,Sol	Spec	Chenon	CJC	36 (1958)	1181
$C_2H_7N.HCl$	Ethylamine hydrochloride	2-8μ	-	Spec	Nakanishi	BCSJ	30 (1957)	403
		1000-3500	S,Sol	Spec	Chenon	CJC	36 (1958)	1181
		2-15μ	S	Freq, Assign	Bellanato	SA	16 (1960)	1344
$C_2H_7N.HI$	Ethylamine hydriodide	1000-3500	S,Sol	Spec	Chenon	CJC	36 (1958)	1181
C_2H_7NO	Ethanolamine	8800-11000	G,L,	Photographic, H bond	Thompson	JACS	61 (1939)	1396
		-	Sol	Group freq, H bond	Bergmann	JACS	75 (1953)	68
C_2H_7NO	1-Hydroxy-2-aminoethane	-	-	Rot iso	Kuhn	ZAC	170 (1959)	106
C_2H_7NO	N,N-Dimethylhydroxylamine	420-4000	G,L,Sol	Spec, Assign	Davies	JCS	- (1959)	3971
C_2H_7NO	O,N-Dimethylhydroxylamine	420-4000	G,L,Sol	Spec, Assign	Davies	JCS	- (1959)	3971
C_2H_7NOS	Dimethyl sulfoximine	670-1800	S	Spec, Group freq	Short	JCS	- (1951)	1746
$C_2H_7NO_2$	Ammonium acetate	2.8-6μ	Sol	Spec, Assign	Plyler	JCP	2 (1934)	410
		4.75μ	Sol	Absorption	Barr	JCP	7 (1939)	8
		-	-	Freq, Quant mech	Horvath	JCP	16 (1948)	857

$C_2H_7NO_2S$	N-Methylmethane-sulphonamide	-	S,Sol	Group freq	Baxter	JCS	- (1955) 669
$C_2H_7NO_3S$	Taurine	909-1538	Sol	Spec	Parker	SA	16 (1960) 910
$C_2H_7N_3$	N-Methylguanidine	800-3500	S	Spec	Goto	BCSJ	30 (1957) 723
$C_2H_7N_3.HCl$	N-Methylguanidine hydrochloride	-	S	C=N freq	Pickard	JACS	76 (1954) 5169
		800-3500	S	Spec	Goto	BCSJ	30 (1957) 723
$C_2H_7N_3S$	H-Methylthiosemicarbazide	700-1700	S	Spec, Struct, Assign, Taut.	Lieber	CJC	36 (1958) 801
C_2H_7OB	Dimethylboric acid	250-4000	-	Spec, Assign, Freq	Goubeau	ZPC	20 (1959) 15
$C_2H_7O_2P$	Dimethylphosphinic acid	-	-	Freq, Assign	Ketelaar	RTC	78 (1959) 190
$C_2H_7O_2PS_2$	O,O-Dimethylphosphoro-dithioic acid	450-550	L	Assign	McIvor	CJC	37 (1959) 869
$C_2H_7O_2B$	Dimethoxyborane	2-15 μ	G	Spec, Freq, Assign	Lehmann	JCP	30 (1959) 1215
$C_2H_7O_3P$	Dimethyl hydrogenphosphite	2-25 μ	L	Spec, Struct	Meyrick	JCS	- (1950) 225
		-	-	p=O, 7.9 μ shift	Bell	JACS	76 (1954) 5185
		-	-	Band freq	Bennett	JCS	- (1954) 3598
$C_2H_7O_3PS$	Dimethylphosporothioic acid	740-830	L	Assign, Discussion	McIvor	CJC	37 (1959) 869
$C_2H_7O_4B$	Etheleneacetylborate	6-14 μ	S,L	Assign, Struct	Blau	JCS	- (1960) 380
C_2H_7P	Dimethylphosphine	625-5000	G	Spec	Beachell	JCP	27 (1957) 182
$C_2H_7PS_4$	Dimethylphosphorotetra-thioic acid	1950-2650	L,Sol	H bond	Alford	CIL	- (1959) 514
$C_2H_8Cl_4NB$	Dimethylammonium-tetrachloroborate	600-3500	S	Spec	Kynaston	JCS	- (1960) 1772
$C_2H_8Cl_4N_5P_3$	Methylamino derivative of phosphoronitrilic chloride	1150-1350	-	Freq, Struct	Shaw	CIL	- (1959) 54

$C_2H_8F_3O_2B$	Boron trifluoride dimethanol complex	2200-7500	-	Struct	Babushkin	OS	5 (1958)	256
$C_2H_8F_4NB$	Dimethylammonium tetrafluoroborate	-	S	H bond, Band freq	Nuttall	JCS	- (1960)	4965
$C_2H_8F_6N_2B_2$	Ethylenediamine-2 boron trifluoride complex	2-16μ	S	Spec	Brown	JACS	76 (1954)	2537
C_2H_8IN	Dimethylammonium iodide	400-4000	S	Assign	Ebsworth	SA	13 (1959)	261
C_2H_8N	Dimethylammonium ion	-	-	Freq assign	Edsall	JCP	5 (1937)	225
C_2H_8N	Ethylammonium ion	-	-	Freq assign	Edsall	JCP	5 (1937)	225
C_2H_8NB	N,N-Dimethylaminoborine	-	-	Freq	Price	JCP	17 (1949)	1044
$C_2H_8N_2$	unsym-Dimethylhydrazine	-	-	Group freq, Assign, Thermo	Aston	JACS	75 (1953)	6202
		700-3500	G,L	IR, Freq, Assign	Shull	JCP	22 (1954)	1191
		2-15μ	G	Spec, Threshold values	Pierson	AC	28 (1956)	1218
		1.9μ	Sol	Determination of H_2O	Cordes	AC	29 (1957)	485
$C_2H_8N_2$	N,N'-Dimethylhydrazine	-	-	Vib analysis	Uest	JCP	6 (1938)	1
		-	-	Assign, Thermo	Aston	JACS	73 (1951)	1943
		650-3000	L,G	IR, Assign	Axford	JCP	19 (1951)	704
		2-15μ	G	Spec, Threshold values	Pierson	AC	28 (1956)	1218
$C_2H_8N_2$	Ethylenediamine	-	-	FC	Linnett	TFS	41 (1945)	223
		-	S	Spec	Nakanishi	BCSJ	30 (1957)	403
		2-15μ	L	Freq (ν, δ), Assign	Stewart	JCP	30 (1959)	1259
		2-25μ	S,G,L	Freq, Assign	Sabatini	SA	16 (1960)	677
$C_2H_8N_2.HCl$	Ethylenediamine hydrochloride	2-8μ	S	Spec	Nakanishi	BCSJ	30 (1957)	403
		2-15μ	S	Assign, Freq	Bellanato	SA	16 (1960)	1344
$C_2H_8N_2.2HCl$	Ethylenediamine dihydrochloride	750-2250	S	Assign, Struct	Powell	SA	16 (1960)	241
$C_2H_8N_4O_3$	Aminoguanidine bicarbonate	-	S	C=N freq	Pickard	JACS	76 (1954)	5169
$C_2H_8N_8O_6$	Azodicarbamidine dinitrate	2-15μ	S	Spec, Freq	Lieber	AC	23 (1951)	1594

$C_2H_8N_{10}O$	1-Guanyl-4-nitrosoamino-guanyl-isotetrazene	2-15μ	S	Spec, Freq	Lieber	AC	23 (1951) 1594
$C_2H_8O_2$	Methanol (dimer)	2700-3700	-	H bond	Thiel	JCP	27 (1957) 95
$C_2H_8O_2Si$	Dimethylsilanediol	-	S	Ident	Hyde	JACS	75 (1953) 2166
		-	S	O-H, Si-CH_3, Si-O freq	Kantor	JACS	75 (1953) 2712
C_2H_8Si	Dimethylsilane	2-16μ	G	Spec, Group freq	Kaye	JOC	18 (1953) 1750
		-	-	Group freq, Thermo	Tannenbaum	JACS	75 (1953) 3753
		2-16μ	G	Not shown	White	JACS	76 (1954) 3897
		400-4000	S,G	Spec, Assign	Ebsworth	JCS	- (1958) 1453
		-	-	Assign, FC	Kriegsmann	ZE	62 (1958) 1033
		-	G	Microwave spec	Pierce	JCP	31 (1959) 547
		2050-2250	Sol	Freq, Struct	Smith	SA	15 (1959) 412
		400-3500	G	Assign	Ball	SA	16 (1960) 1358
C_2H_8Si	Ethylsilane	2-16μ	G	Spec, Group freq	Kaye	JOC	18 (1953) 1750
		-	-	Group freq	Tannenbaum	JACS	75 (1953) 3753
		2-16μ	G	Ident	White	JACS	76 (1954) 3897
$C_2H_{10}OSi_2$	Methylsilyl oxide	400-4000	G	Spec, Assign	Ebsworth	JCS	- (1958) 1453
$C_2H_{10}SSi_2$	Methylsilyl sulphide	400-4000	Sol	Spec, Assign	Ebsworth	JCS	- (1958) 1453
$C_2H_{10}B_2$	1,1-Dimethyldiborane	1500-2850	-	Freq	Shapiro	JCP	29 (1958) 237
$C_2H_{10}B_{22}$	1,2-Dimethylborane	1500-2850	-	Freq	Shapiro	JCP	29 (1958) 237
		2-15μ	G	Spec, Assign	Lehmann	JCP	33 (1960) 590
$C_2H_{10}B_2$	Ethyldiborane	1500-2850	-	Freq	Shapiro	JCP	29 (1958) 237
		2-15μ	G	Spec, Assign	Lehmann	JCP	32 (1960) 1786
$C_2H_{10}Si_2$	Disilylethane	2-16μ	L,G	Not shown	White	JACS	76 (1954) 3897
$C_2H_{11}NB_2$	Dimethylaminodiborane	2-20μ	G	Spec, Assign	Mann	JCP	22 (1954) 70
		400-600	G	Assign, Thermo	Mann	JCP	22 (1954) 762
		-	-	NCA	Breene	JCP	23 (1955) 97
		15-40μ	G	Spec, Assign	Stewart	JCP	23 (1955) 2204
$C_2H_{13}B_5$	Ethylpentaborane	400-3000	Sol	Spec, Struct	Figgis	SA	15 (1959) 331
C_2DBr_3	Tribromoethylene-d_1	385-3237	L	Spec, Assign	Scherer	JCP	33 (1960) 314

C_2DCl	Chloroacetylene-d_1	-	-	Microwave	Westenberg	JCP	17	(1949)	1319
		2-30 μ	G	Spec, FC	Richardson	JCP	18	(1950)	1314
C_2DCl^{37}	Chloroacetylene-d_1 (Isotopic)	-	-	Microwave	Westenberg	JCP	17	(1949)	1319
C_2DCl_3	Trichloroethylene-d_1	2-25 μ	-	Assign	Bernstein	CJR	28	(1950)	132
		172-3942	-	Spec, Assign	Houser	JACS	77	(1955)	6201
$C_2DCl_3O_2$	Trichloroacetic acid-d_1	650-1500	S,Sol	Spec, NCA, Assign	Hadzi	PRS	216	(1953)	247
		2092-2591	Sol	Struct	Fuson	JOSA	43	(1953)	1102
		-	S	Freq	Bratoz	SA	8	(1956)	249
		-	-	Assign	Olero	ARS	55B	(1959)	205
		1500-700	G	Freq, Spec, Assign	Hadzi	SA	12	(1958)	162
C_2DCl_5	Pentachloroethane-d_1	2250	Sol	Freq	Bernstein	JCP	23	(1955)	2201
C_2DF_3	Trifluoroethylene-d_1	2-50 μ	G	Spec, Assign, Thermo	Mann	JCP	22	(1954)	1586
$C_2DF_3O_2$	Trifluoroacetic acid-d_1	2-15 μ	G,L,Sol	IR, Spec, Assign	Fuson	JCP	20	(1952)	1627
		-	-	Struct	Fuson	PR	91	(1953)	234
		2077-2648	G	Struct	Fuson	JOSA	43	(1953)	1102
C_2D_2	Acetylene-d_2	-	-	Freq	Randall	PR	45	(1934)	124
		-	G	No absorption	Bradley	PR	47	(1935)	914
		-	-	Freq	Colby	PR	47	(1935)	388
		-	-	Product rule	Redlich	JCP	7	(1939)	856
		2-10 μ	G	Freq	Nielsen	PR	57	(1940)	346
		450-4000	G	Spec, Assign	Stitt	JCP	8	(1940)	56
		-	-	Vib analysis	Halverson	RMP	19	(1947)	87
		-	-	FC, Bond interactions	Linnett	TFS	45	(1949)	844
		4130-5140	G	Spec, Assign	Plyler	JRNB	74	(1951)	248
		-	-	FC	Torkington	PRS	206	(1951)	17
		-	-	FC	Decius	JCP	20	(1952)	511
		-	-	Intensity rule	Decius	JCP	20	(1952)	1039
		-	-	C=C freq	El-Sabban	JCP	20	(1952)	1810
		.75-1.18 μ	G	Spec, Freq, Mol consts	Saksena	JCP	20	(1952)	95
		-	--	Sum rule	Bernstein	JCP	21	(1953)	2188
		500-8000	G	Spec, Assign	Talley	JCP	22	(1954)	2030
		3-20 μ	G	Spec	Overend	PRS	232	(1955)	291
		539	G	I, Bond moments	Wingfield	JCP	23	(1955)	731
		1-5 μ	G	Mol consts	Allen	JRNB	56	(1956)	279
		3-16 μ	G	Spec, Mol consts	Christensen	PRS	238	(1957)	15
$C_2D_2Br_2$	1,1-Dibromoethylene-d_2	-	-	Freq, FC	DeHemptinne	TFS	42	(1946)	5

		-	-	Assign, Quant mech	Torkington	JCP	17	(1949)	1279
		-	-	NCA	Dowling	PR	100	(1955)	1267
$C_2D_2Br_2$	1,2-Dibromoethylene-d_2	400-3000	L,G	Spec, Assign, NCA,Thermo	Dowling	JCP	26	(1957)	233
$C_2D_2ClO_2$	Chloroacetate ion-d_2	-	-	Assign	Nakamura	NKZ	79	(1958)	1420
$C_2D_2Cl_2$	cis-Dichloroethylene-d_2	-	-	Product rule	Redlich	JCP	7	(1939)	856
		400-3500	G,L	Assign, Spec, Isomerism	Bernstein	JCP	17	(1940)	556
		-	-	Sum rule	Mizushima	JCP	21	(1953)	215
		-	-	NCA	Dowling	PR	100	(1955)	1267
$C_2D_2Cl_2$	trans-Dichloroethylene-d_2	-	-	Product rule	Redlich	JCP	7	(1939)	856
		-	-	Vib anal	Halverson	RMP	19	(1947)	87
		400-3500	G,L	Assign, Spec, Isomerism	Bernstein	JCP	17	(1949)	556
		-	-	Sum rule	Mizushima	JCP	21	(1953)	215
		-	-	NCA	Dowling	PR	100	(1955)	1267
$C_2D_2Cl_2$	Vinylidene chloride-d_2	-	-	Assign, FC, Freq	Enamoto	NKZ	79	(1958)	1343
$C_2D_2Cl_4$	1,1,1,2-Tetrachloroethane-2,2-d_2	2.5-25μ	-	Assign	Bernstein	CJR	28B	(1950)	132
$C_2D_2Cl_4$	1,1,2,2-Tetrachloroethane	-	-	Freq assign	Langseth	JCP	8	(1940)	410
		-	-	FC	Zietlow	JCP	24	(1956)	142
$C_2D_2F_2$	1,1-Difluoroethylene-2,2-d_2	2-40μ	G	IR, Spec, Assign	Edgell	JCP	22	(1954)	1983
		-	-	NCA	Dowling	PR	100	(1955)	1267
		-	-	Struct	Edgell	JACS	79	(1957)	2691
		-	G	Struct, Microwave	Kinsey	DA	17	(1957)	1910
C_2D_2O	Ketene-d_2	-	G	Assign, Freq	Fletcher	JCP	19	(1951)	1431
		500-3200	G	Struct, Spec	Arendale	JCP	24	(1956)	581
		450-3000	-	Spec, Assign	Arendale	JCP	26	(1957)	793
$C_2^{12}D_2^2O^{16}$	Ketene-d_2 (Isotopic)	-	G	Microwave	Johnson	JCP	20	(1952)	687
$C_2D_2O_2$	Ethanedial-d_2	-	-	Vib anal, Spec	Brand	TFS	50	(1954)	431
		117-2141	G	Vib assign	Brand	JCS	-	(1954)	2970
$C_2D_2O_4$	Oxalic acid-d_2	680-1500	S	Spec, NCA, Assign	Hadzi	PRS	216	(1953)	247

C_2D_3Br	1-Bromo-1,2,2-ethylene-d_3	-	-	Freq, FC	DeHemptinne	TFS	42	(1946)	5
		-	-	FC	Torkington	PRS	206	(1951)	17
C_2D_3Cl	Vinyl chloride-d_3	400-4000	G	NCA, FC, Freq, Assign	Narita	JCP	31	(1959)	1151
C_2D_3F	Vinyl fluoride-d_3	400-3500	G	Assign	Bak	SA	12	(1958)	355
		-	G	Microwave spec, Mol consts, Struct	Pierce	JCP	31	(1959)	875
$C_2D_3F_3$	1,1,1-Trifluoroethane-d_3	-	-	Microwave spec, Mol struct	Edgell	JACS	79	(1957)	2391
$C_2^{12}D_3N^{14}$	Methyl cyanide-d_3 (Isotopic)	-	-	Microwave	Kessler	PR	79	(1950)	54
$C^{12}C^{13}D_3N^{14}$	Methyl cyanide-d_3 (Isotopic)	-	-	Microwave	Kessler	PR	79	(1950)	54
$C_2^{12}D_3N^{14}$	Methyl isocyanide-d_3 (Isotopic)	-	-	Microwave	Kessler	PR	79	(1950)	54
$C^{12}C^{13}D_3N^{14}$	Methyl isocyanide-d_3 (Isotopic)	-	-	Microwave	Kessler	PR	79	(1950)	54
$C_2D_3O_2$	Acetate-d_3 ion	-	-	Freq, Assign	Nakamura	NKZ	79	(1958)	1411
C_2D_4	Ethylene-d_4	-	-	Modes of vibrations	Manneback	JCP	5	(1937)	989
		-	-	Freq assign	Wu	JCP	5	(1937)	392
		-	-	Vib analysis	DeHemptinne	JCP	6	(1938)	319
		-	G	No exchange reaction	Conn	PRS	171	(1939)	70
		1-19μ	G	Spec, Freq, Assign	Conn	PRS	172	(1939)	172
		-	-	Product rule	Redlich	JCP	7	(1939)	856
		2-14μ	-	Assign, Spec	Gallaway	JCP	10	(1942)	88
		-	-	Ratio rule	Edgell	JCP	13	(1945)	539
		-	-	Vib anal	Halverson	RMP	19	(1947)	87
		-	-	Vib anal, FC	Linnett	TFS	45	(1949)	832
		580-3300	G	Spec, Assign	Arnett	JCP	18	(1950)	118
		-	-	FC	Torkington	PRS	206	(1951)	17
		-	-	C=C freq	El-Sabban	JCP	20	(1952)	1810
		2-16μ	G	Spec	Thompson	JPC	56	(1952)	243
		-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
		-	-	Freq, Assign	Crawford	JCP	21	(1953)	678
		-	-	NCA	Dowling	PR	100	(1955)	1267
		-	-	Assign	Wilkinson	JCP	23	(1955)	1895

		-	-	Study of $CH_2 = CH_2$	Flanagan	JPC	60	(1956)	730
		-	-	I	Sverdlov	OS	4	(1958)	697
$C_2D_4Br_2$	1,2-Dibromoethane-d_4	-	-	Product rule	Redlich	JCP	7	(1939)	856
		400-3200	L,S	Spec, Assign	Neu	JCP	18	(1950)	1642
		-	-	Sum rule for isomers	Mizushima	JCP	21	(1953)	215
$C_2D_4N_2O_2$	Oxamide-d_4 analogue	400-4000	L	Spec, Freq assign, Struct	Scott	JCP	30	(1959)	465
$C_2D_4N_2S_2$	Dithiooxamide-d_4 analogue	400-4000	L	Spec, Freq assign, Struct	Scott	JCP	30	(1959)	465
C_2D_4O	Acetaldehyde-d_4	3-25μ	G	Spec, Assign	Morris	JCP	11	(1943)	230
		-	-	Assign,Thermo	Pitzer	JACS	71	(1949)	2842
C_2D_4O	Ethylene-d_4 oxide	-	-	Moment of inertia	Cunningham	JCP	17	(1949)	211
		3-20μ	-	Freq, FC	Arnold	PR	94	(1954)	804
		375-3800	G	IR, Assign	Lord	JCP	24	(1956)	656
		-	-	Struct, Spec	Turner	JCP	24	(1956)	924
$C_2D_4O_2$	Acetic acid-C-d_3-o-d_1	1-15μ	-	Spec, H bond	Herman	JCP	7	(1939)	460
		-	-	Association	Davies	JCP	16	(1948)	267
		785-2326	G	Assign	Wettner	JACS	77	(1955)	3941
$C_2D_4O_4$	Formic acid (Dimeric)-d_4	625-3800	G	Spec, Assign	Millikan	JACS	80	(1958)	3515
$C_2D_5NO_2$	Glycine-c-d_2-N-d_3	-	-	Assign	Nakamura	NKZ	80	(1959)	118
C_2D_6	Ethane-d_6	900-3200	G	Assign, Analysis of isotopic mixture	Benedict	JCP	5	(1937)	1
		-	-	C-D vibration, Product rule	Redlich	JCP	7	(1939)	856
		2-22μ	G	Vib anal, Spec	Stitt	JCP	7	(1939)	297
		595-1078	-	Comparison with C_2H_2 and C_2H_5D	Posey	PR	61	(1942)	546
		-	-	Ratio rule	Noether	JCP	11	(1943)	97
		-	-	Ratio rule, Isotope effect	Edgell	JCP	13	(1945)	539
		-	-	Vib analysis	Halverson	RMP	19	(1947)	87
		-	-	Product rule	Pace	JCP	15	(1947)	528
		-	-	Vib analysis, Quant mech	Simanouti	JCP	17	(1949)	734
		-	-	C-C freq	El-Sabban	JCP	20	(1952)	1810
		600-2100	G	Spec, FC	Hansen	JCP	20	(1952)	313

		2-16 μ	G	Spec	Thompson	JPC	56 (1952) 243
		-	-	Vibrational rotational interaction	Meal	JCP	24 (1956) 1126
		-	-	I, NCA	Nyquist	JCP	26 (1957) 552
C_2D_6OS	Dimethyl sulfoxide-d_6	650-4000	G,Sol	Assign, Spec	Cotton	JPC	64 (1960) 1534
		2100-2300	G	Struct, Mol const	Allen	JACS	80 (1958) 2673
		2730-2770	G	Spec, Anal	Allen	JCP	31 (1959) 1062
$C_2D_{10}B_2$	Ethyldiborane-d_{10}	2-15 μ	G	Spec, Assign	Lehmann	JCP	32 (1960) 1786
C_2BrClF_2	1-Bromo-1-Chloro-2,2-difluoroethylene	-	-	FC, NCA	Mann	JCP	27 (1957) 51
C_2BrClF_2	1-Bromo-2-chloro-1,2-difluoroethylene	-	-	FC, NCA	Mann	JCP	27 (1957) 51
C_2BrClF_2	2-Bromo-2-chloro-1,1-difluoroethylene	2-38 μ	G	Spec, Assign, Thermo, Freq	Theimer	JCP	30 (1959) 98
C_2BrClF_4	1-Bromo-2-chloro-1,1,2,2-tetrafluoroethane	2-18 μ	L,S	Rot isomerism	Kagarise	JCP	26 (1957) 380
C_2BrCl_2F	1-Bromo-1,1-dichloro-1-fluoroethylene	-	-	FC, NCA	Mann	JCP	27 (1957) 51
C_2BrCl_2F	1-Bromo-1,2-dichloro-2-fluoroethylene	-	-	FC, NCA	Mann	JCP	27 (1957) 51
C_2BrCl_3	1-Bromo-1,2,2-trichloroethylene	-	-	FC, NCA	Mann	JCP	27 (1957) 51
C_2BrF_3	Bromotrifluoroethylene	2-52 μ	G	Spec, Assign, Thermo	Mann	JCP	22 (1954) 1199
		-	-	Vib sum rule	Bernstein	JCP	24 (1956) 910
		-	L	Spectrometer for IR	Plyler	JRNB	56 (1956) 149
		-	-	FC, NCA	Mann	JCP	27 (1957) 51
C_2BrF_3O	Trifluoroacetyl bromide	-	G	Carbonyl freq	Bellamy	JCS	- (1957) 4294
C_2BrF_5	Bromopentafluoroethane	2-16 μ	G	Spec	Hauptschein	JACS	74 (1952) 1347
		-	-	Purity	Husted	JACS	76 (1954) 5141
		1.5-36 μ	G	Spec, Assign	Klaboe	JCP	30 (1959) 1375
		650-3000	G	Spec, Assign	Risgin	SA	15 (1959) 1036

C_2Br_2ClF	1-Chloro-1,2-dibromo-2-fluoroethylene	-	-	FC, NCA	Mann	JCP	27 (1957)	51
C_2Br_2ClF	2-Chloro-1,1-dibromo-2-fluoroethylene	-	-	FC, NCA	Mann	JCP	27 (1957)	51
C_2Br_2ClF	2-Chloro-1,2-dibromo-1-fluoroethylene	-	-	FC, NCA	Mann	JCP	27 (1957)	51
$C_2Br_2Cl_2$	1,1-Dibromo-2,2-dichloroethylene	-	-	NCA, FC	Mann	JCP	27 (1957)	51
$C_2Br_2Cl_2$	cis-1,2-Dibromo-1,2-dichloroethylene	-	-	FC, NCA	Mann	JCP	27 (1957)	51
$C_2Br_2Cl_2$	trans-1,2-Dibromo-1,2-dichloroethylene	-	-	FC, NCA	Mann	JCP	27 (1957)	51
$C_2Br_2F_2$	1,1-Dibromo-2,2-difluoroethylene	-	-	FC, NCA	Mann	JCP	27 (1957)	51
		300-5000	G	Spec, Assign	Theimer	JCP	26 (1957)	1374
$C_2Br_2F_2$	cis-1,2-Dibromo-1,2-difluoroethylene	-	-	FC, NCA	Mann	JCP	27 (1957)	51
$C_2Br_2F_2$	trans-1,2-Dibromo-1,2-difluoroethylene	-	-	FC, NCA	Mann	JCP	27 (1957)	51
$C_2Br_2F_4$	1,2-Dibromotetrafluoroethane	-	-	Ident	Haszeldine	JCS	- (1952)	4259
		2-36μ	L,C,S	IR, Rot iso, Spec	Kagarise	JCP	23 (1955)	130
C_2Br_3Cl	Chlorotribromoethylene	-	-	FC, NCA	Mann	JCP	27 (1957)	51
C_2Br_3F	Fluorotribromoethylene	-	-	Vib sum rule	Bernstein	JCP	24 (1956)	910
		-	-	FC, NCA	Mann	JCP	27 (1957)	51
C_2Br_4	Tetrabromoethylene	3-100μ	-	Vib assign, FC	Mann	PR	99 (1955)	667
		-	-	Vib sum rule	Bernstein	JCP	24 (1956)	910
		3-100μ	L,Sol	Spec, Assign, Thermc	Mann	JCP	24 (1956)	1018
		-	L	Prism spectrometer	Plyler	JRNB	56 (1956)	149
		-	-	FC, NCA	Mann	JCP	27 (1957)	51
C_2Br_6	Hexabromoethane	-	-	IR, Assign	Hamilton	JCP	12 (1944)	249

		-	-	Freq, FC	Simanouti	JCP	17	(1949)	848
		400-5000	L	IR	Carney	PR	77	(1950)	740
		-	-	C-C freq	El-sabban	JCP	20	(1952)	1810
C_2ClF_2N	Chlorodifluoroaceto-nitrile	450-4600	-	Spec, Assign	Wait	JCP	26	(1957)	1554
C_2ClF_3	Chlorotrifluoroethylene	8-15 μ	G	Spec	Lacher	JACS	71	(1949)	1334
		-	-	C=C freq	Haszeldine	JCS	-	(1952)	4423
		190-4000	G	Spec, Assign, Thermo	Mann	JCP	21	(1953)	1949
		-	-	Purity	Haszeldine	JCS	-	(1954)	3747
		-	-	Assign	Mann	JCP	22	(1954)	1199
		-	-	IR, Assign	Rolfe	TFS	50	(1954)	1030
		-	-	Freq, Assign	Mann	JCP	23	(1955)	1989
		-	-	Vib sum rule	Bernstein	JCP	24	(1956)	910
		5.6-5.65 μ	-	IR	Lacher	TFS	52	(1956)	1500
		-	-	NCA	Mann	JCP	27	(1957)	51
		-	-	Freq	Bellamy	JCS	-	(1958)	2463
C_2ClF_3O	Trifluoroacetyl chloride	2-15 μ	-	Spec	Lovell	PR	91	(1953)	235
		-	G	Carbonyl freq	Bellamy	JCS	-	(1957)	4294
$C_2ClF_4NO_2$	1-Chlorotetrafluoro-2-nitroethane	-	G	Band freq, I	Haszeldine	JCS	-	(1953)	2525
		-	-	Band freq, Comparison	Haszeldine	JCS	-	(1953)	4472
		-	-	Group freq	Jauder	JCS	-	(1954)	919
C_2ClF_5	Chloropentafluoroethane	2-40 μ	G	Spec	Barcelo	JRNB	44	(1950)	521
		2-16 μ	G	Spec	Hamptschein	JACS	74	(1952)	1347
		2-38 μ	L,G	IR, Spec, Assign	Nielsen	JCP	21	(1953)	383
		-	-	Torsion assign	Luft	JCP	22	(1954)	155
		650-3000	G	Spec, Assign	Risgin	SA	15	(1959)	1036
C_2ClF_6P	Chlorobistrifluoromethyl-phosphine	4.32-13.95 μ	G	Table	Bennett	JCS	-	(1953)	1565
		-	-	CF_3 deformation, Ident	Bennett	JCS	-	(1954)	3896
C_2ClF_6As	Bistrifluoromethyl-chloroarsine	-	G,S	Group freq	Emeleus	JCS	-	(1953)	1552
$C_2Cl_2F_2$	trans-1,2-Dichloro-1,2-difluoroethylene	-	-	FC, NCA	Mann	JCP	27	(1957)	51
C_2Cl_2FN	Dichlorofluoro-acetonitrile	400-3300	-	Spec, Assign	Wait	JCP	26	(1957)	1554

$C_2Cl_2F_2$	1,1-Dichloro-2,2-difluoroethylene	3-20 μ	G	Spec, Assign	Torkington	TFS	41	(1945)	236
		8-15 μ	G	Spec	Lacher	JACS	71	(1949)	1334
		-	-	Quant mech, Assign	Torkington	JCP	17	(1949)	1279
		2-22.6 μ	G	IR, Assign	Nielsen	JCP	18	(1950)	485
		-	-	C=C freq	El-Sabban	JCP	20	(1952)	1810
		-	-	Freq, Assign	Mann	JCP	23	(1955)	1989
		-	-	NCA, FC	Mann	JCP	27	(1957)	51
		-	-	Freq	Bellamy	JCS	-	(1958)	2463
$C_2Cl_2F_2$	1,2-Dichloro-1,2-difluoroethylene	-	-	FC, NCA	Mann	JCP	27	(1957)	51
		200-5000	G	Spec, Assign, Thermo	Mann	JCP	26	(1957)	773
$C_2Cl_2F_4$	1,1-Dichlorotetrafluoroethane	2-38 μ	L,G	IR, Spec, Assign	Nielsen	JCP	21	(1953)	383
$C_2Cl_2F_4$	1,2-Dichlorotetrafluoroethane	8-15 μ	G	Spec	Lacher	JACS	71	(1949)	1330
		-	-	Ident	Haszeldine	JCS	-	(1952)	4423
		2-40 μ	G	Spec, I, Assign	Simpson	JRNB	50	(1953)	223
		2-36 μ	S,L,G	IR, Spec, Rot iso	Kagarise	JCP	23	(1955)	113
		2-18 μ	S,L	Rot iso	Kagarise	JCP	26	(1957)	380
$C_2Cl_2OS_2$	Carbonsulfoxy chloride	600-1900	S,Sol	Struct, Freq, Assign	Jones	JCS	-	(1957)	614
$C_2Cl_2O_2$	Oxalyl chloride	400-10000	L	Assign	Ziomek	JCP	17	(1949)	669
		700-2900	G,L	IR, Rot iso	Saksena	JCP	19	(1951)	987
		-	-	Complex formation, Absorption	Saksena	JCP	19	(1951)	994
		-	G,L, Sol,S	Config, Internal rotation	Mizushima	JPC	56	(1952)	324
		4-22 μ	L,S	Spec, Iso	Kagarise	JCP	21	(1953)	1615
		700-2900	L,G	IR, Rot iso	Ziomek	JCP	21	(1953)	90
C_2Cl_3F	Fluorotrichloroethylene	3-50 μ	G	IR, Spec, Freq	Mann	PR	95	(1954)	622
		3-50 μ	G	IR, Spec, Assign, Thermo	Mann	JCP	23	(1955)	1989
		2-22 μ	G	IR, Spec, Assign	Nielsen	JCP	23	(1955)	1994
		-	-	Vib sum rule	Bernstein	JCP	24	(1956)	910
		-	-	FC, NCA	Mann	JCP	27	(1957)	51
$C_2Cl_3F_3$	1,1,1-Trichloro-2,2,2-trifluoroethane	8-15 μ	G	Spec	Lacher	JACS	71	(1949)	1334
		2-38 μ	L,G	IR, Spec, Assign	Nielsen	JCP	21	(1953)	383
		-	-	IR, Freq, Assign	Nielsen	JCP	21	(1953)	1060
		-	-	Assign, Thermo	Luft	JCP	22	(1954)	155
		150-450	G	Spec	Catalano	JPC	62	(1958)	838

$C_2Cl_3F_3$	1,1,2-Trichloro-1,2,2-trifluoroethane	8-15μ	G	Spec	Lacher	JACS	71	(1949) 1334
C_2Cl_3N	Trichloroacetonitrile	-	L	Spec, Assign, Thermo	Davies	JCS	-	(1954) 2374
		4-4.5μ	L	Freq, Assign	Barr	JCS	-	(1956) 3428
		-	-	Microwave, Struct	Baker	TFS	53	(1957) 1397
		3-21μ	L	Spec, Assign, NCA	Edgell	JCP	27	(1957) 543
		450-4600	G,L	Spec, Assign, FC, NCA	Wait	JCP	26	(1957) 1554
		-	G	Microwave	Weil	ZE	61	(1957) 938
		2200-2300	G,Sol	Freq, Struct	Jesson	SA	13	(1958) 217
$C_2Cl_3^{35}N$	Trichloroacetonitrile (Isotopic)	16000-27000 Mc/sec	-	Microwave, Freq, Mol consts, I, Struct	Baker	TFS	53	(1957) 1397
$C_2Cl_2^{35}Cl^{37}N$	Trichloroacetonitrile (Isotopic)	-	-	Microwave, Freq, I, Struct	Baker	TFS	53	(1957) 1397
C_2Cl_4	Tetrachloroethylene	2-15μ	-	Freq	Marvin	PR	34	(1912) 161
		0.8-3μ	L	Spec, Freq	Spence	PR	34	(1929) 730
		2-25μ	G	Spec, IR, Assign	Wu	PR	46	(1934) 465
		-	-	C=O, C=C, FC	Linnett	JCS	-	(1937) 1393
		-	-	FC	Linnett	TFS	41	(1945) 223
		-	-	FC	Walsh	TFS	42	(1946) 779
		24-40μ	-	Abs, Freq	Plyler	JCP	16	(1948) 1008
		-	-	FC	Duchesne	TFS	45	(1949) 795
		-	-	Assign, FC	Torkington	TFS	45	(1949) 445
		2.5-25μ	L,G	Spec, Assign	Bernstein	JCP	18	(1950) 478
		-	-	Cubic secular eqn	Torkington	JCP	18	(1950) 773
		-	-	Assign, Thermo	Torkington	TFS	46	(1950) 894
		-	-	Use as solvent, IR	Ard	AC	23	(1951) 680
		-	-	Freq	El-Sabban	JCP	20	(1952) 1810
		15-25μ	L	Transparent solvent	Marrison	JSI	29	(1952) 233
		2-15μ	L	Spec	Pristera	APS	6	(1952) 29
		8-14.5μ	Sol	Table, Band freq	Urone	AC	24	(1952) 626
		-	L	IR	Ard	AC	25	(1953) 1743
		-	-	Sum rule	Bernstein	JCP	21	(1953) 2188
		650-1300	Sol	Analysis	Bernstein	AC	25	(1953) 139
		270-190	L	Spec	Mann	PR	91	(1953) 464
		-	-	Vib interaction theory	Torkington	JCP	21	(1953) 83
		2-50μ	L,Sol	Spec, I	Mann	JRNB	52	(1954) 67
		-	L	Analysis	Semeluk	JACS	76	(1954) 3793
		-	-	Obs, Freq, Assign	Mann	JCP	23	(1955) 1989
		-	-	Temp effect on I	Slowinski	JOSA	45	(1955) 396
		-	-	Vib sum rule	Bernstein	JCP	24	(1956) 910

		-	-	Freq, Assign, Thermo	Mann	JCP	24	(1956)	1018
		-	L	Prism spectrometer	Plyler	JRNB	56	(1956)	149
		1-14 μ	L	Table, Refraction index	Jaffe	JOSA	47	(1957)	782
		-	-	FC, NCA	Mann	JCP	27	(1957)	51
$C_2Cl_4F_2$	1,1-Difluorotetrachloro-ethane	8-16 μ	G	Spec	Lacher	JACS	71	(1949)	1334
		2-38 μ	L	IR, Spec, Assign, Thermo	Nielsen	JCP	21	(1953)	1070
C_2Cl_4O	Trichloroacetyl chloride	-	-	Band freq	Johannesen	JRNB	53	(1954)	197
		-	-	C=O freq	Kagarise	JACS	77	(1955)	1377
		1700-1800	G,Sol	Carbonyl freq	Bellamy	JCS	-	(1958)	3468
		-	Sol	Freq, I	Thompson	SA	13	(1958)	236
$C_2Cl_4O_2$	Trichloromethyl chloroformate	-	-	Band freq	Fuggassi	JPC	46	(1942)	630
		10.82 μ	-	Photochlorination study	Brandy	JCP	21	(1953)	1049
		-	-	Freq, Struct, Dissociation	Hales	JCS	-	(1957)	618
$C_2Cl_4S_2$	Thiocarbonyl chloride (Dimeric)	600-1900	S,Sol	Struct, Freq. Assign	Jones	JCS	-	(1957)	614
C_2Cl_5F	2-Fluoropentachloroethane	2-38 μ	S,Sol	IR, Assign, Thermo, Spec	Nielsen	JCP	21	(1953)	1070
		2-40 μ	Sol	Spec, I, Assign	Simpson	JRNB	50	(1953)	223
C_2Cl_6	Hexachloroethane	0.8-3 μ	L	Spec, Freq	Spence	PR	34	(1929)	730
		-	-	IR, Assign	Hamilton	JCP	12	(1944)	249
		-	-	Product rule	Pace	JCP	15	(1947)	528
		8-16 μ	S,Sol	Freq, Assign	Mizushima	JCP	17	(1949)	838
		-	-	Freq, FC	Simanouti	JCP	17	(1949)	848
		400-5000	L	IR	Carney	PR	77	(1950)	740
		-	-	Freq	El-Sabban	JCP	20	(1952)	1810
		-	-	Config, Internal rot	Mizushima	JPC	56	(1952)	324
		650-1300	Sol	Analysis	Bernstein	AC	25	(1953)	139
		-	-	Analysis	Semeluk	JACS	76	(1954)	3793
		-	-	NCA	Hirota	BCSJ	31	(1958)	296
C_2F_3IO	Trifluoroacetyl iodide	-	G	Carbonyl freq	Bellamy	JCS	-	(1957)	4294
		-	-	Microspec	Sheridan	PR	77	(1950)	292
C_2F_3N	Trifluoromethyl cyanide	-	G	Micro spec, Iso	Sheridan	JCP	20	(1952)	591

		300-3000	-	Freq	Edgell	JCP	22	(1954)	1808
		4-4.5 μ	G	Freq assign	Barr	JCS	-	(1956)	3428
		2-38 μ	G	IR, Assign, FC	Edgell	JCP	26	(1956)	80
		1-4 mm	-	Rot transition, Mol	Burrus	JCP	26	(1957)	391
		-	G	Struct, Microwave	Thomas	ZE	61	(1957)	935
		450-3500	-	Spec, Assign	Wait	JCP	26	(1957)	1554
$C_2F_3N^{15}$	Trifluoromethyl cyanide (Isotopic)	-	G	Microwave	Sheridan	JCP	20	(1952)	591
C_2F_3NO	Trifluoromethyl isocyanate	4-7.5 μ	G	Freq assign	Barr	JCS	-	(1956)	3428
C_2F_4	Tetrafluoroethane	3-20 μ	G	Spec, Assign	Torkington	TFS	41	(1945)	236
		8-15 μ	G	Spec	Lacher	JACS	71	(1949)	1330
		2-37 μ	G	IR, Assign	Nielsen	JCP	18	(1950)	812
		-	-	Polymerization react	Raal	JCS	-	(1950)	1596
		-	-	Maxima & bond study	Hals	JACS	73	(1951)	4054
		-	-	C=C freq	El-Sabban	JCP	20	(1952)	1810
		-	-	Ident	Haszeldine	JCS	-	(1952)	4423
		-	-	FC, vib	Morino	JCP	20	(1952)	726
		-	-	NCA	Morino	JCP	20	(1952)	1809
		-	-	Band freq, Pyrolysis study	Lazerte	JACS	75	(1953)	4525
		270-190	G	Spec	Mann	PR	91	(1953)	464
		-	-	Vib amplitude theory	Morino	JCP	21	(1953)	1927
		-	-	Purity study	Haszeldine	JCS	-	(1954)	3747
		22-52 μ	G	Spec, Assign, I	Mann	JRNB	52	(1954)	67
		-	-	Freq calc, Assign	Mann	JCP	23	(1955)	1989
		-	-	Vib sum rule	Bernstein	JCP	24	(1956)	910
		-	-	Freq, Assign	Mann	JCP	24	(1956)	1018
		-	-	FC, NCA	Mann	JCP	27	(1957)	51
		-	-	Group freq shift	Bellamy	JCS	-	(1958)	2463
C_2F_4O	Trifluoroacetyl fluoride	-	-	Anal	Francis	JCS	-	(1955)	2151
		-	G	Carbonyl freq	Bellamy	JCS	-	(1957)	4294
C_2F_5I	Iodopentafluoroethane	2-16 μ	G	Spec	Hauptschein	JACS	73	(1951)	2461
		650-3000	G	Spec, Assign	Risgin	SA	15	(1959)	1036
C_2F_5N	Perfluoromethylene-methylamine	-	-	C≡N freq	Barr	JCS	-	(1955)	1881
C_2F_5NO	Pentafluoronitrosoethane	-	G	Stretching vib assign	Haszeldine	JCS	-	(1955)	4172

C_2F_6	Hexafluoroethane	-	-	Product rule	Pace	JCP	15 (1947)	528
		2-15μ	G	Spec, Assign	Nielsen	JCP	16 (1948)	67
		-	G	Assign, Thermo	Pace	JACS	70 (1948)	566
		-	-	Freq, FC	Pace	JCP	16 (1948)	74
		-	-	Freq, FC	Simanouti	JCP	17 (1949)	848
		2-40μ	G	Spec, Theoretical	Barcelo	JRNB	44 (1950)	521
		-	-	FC	Pace	JCP	18 (1950)	881
		-	-	C-C freq	El-Sabban	JCP	20 (1952)	1810
		-	-	Freq, Internal rotation	Mann	JCP	21 (1953)	1116
		-	-	Freq, Assign	Nielsen	JCP	21 (1953)	383
		-	-	Freq correction	Sheppard	JCP	23 (1955)	582
		-	-	Internal motion from electron difference	Swick	JCP	23 (1955)	1499
		-	G	I	Williams	JCP	23 (1955)	179
		-	-	IR, Quant mech	Ayscough	JCP	24 (1956)	944
		-	-	Trans moment	McKean	JCP	24 (1956)	1002
		-	-	Dipole moment, IR, I	Wilmshurst	JPC	62 (1958)	631
C_2F_6IP	Iodo-bis-trifluoromethyl-phosphine	4.44-14μ	G	Table	Bennett	JCS	- (1953)	1565
		-	-	CF_3 deformation freq	Bennett	JCS	- (1954)	3896
C_2F_6IAS	Iodo-bis-trifluoromethyl-arsine	-	G,S	Group freq	Emeleus	JCS	- (1953)	1552
$C_2F_6N_2O$	Hexafluoroazoxymethane	-	-	Group freq, Struct	Jauder	JCS	- (1954)	919
$C_2F_6N_2O_2$	N-Nitroso-ON-bis-trifluoromethylhydroxyl-amine	5.47-13.98μ	G	Table, Group freq, I	Jauder	JCS	- (1954)	696
		-	-	Group freq	Jauder	JCS	- (1954)	919
$C_2F_6O_2S_2$	Di-trifluoromethylthio-sulfonate	7-9μ	G	Freq assign, Correlation	Haszeldine	JCS	- (1955)	2901
C_2F_6S	Bis-trifluoromethylsulfide	1-15μ	G	Spec, Group freq	Brandt	JCS	- (1952)	2549
		-	-	Band & group freq	Haszeldine	JCS	- (1953)	3219
$C_2F_6S_2$	Bis-trifluoromethyl disulfide	-	-	Spec	Brandt	JCS	- (1952)	2198
		1-23μ	G	Spec, Group freq	Brandt	JCS	- (1952)	2549
		-	-	Band & group freq	Haszeldine	JCS	- (1953)	3219
		400-4000	G	Freq, Assign	Nabi	JCS	- (1959)	3439
$C_2F_6S_3$	Bis-trifluoromethyl trisulfide	-	-	Group freq	Haszeldine	JCS	- (1953)	3219

$C_2F_6S_4$	Bis-trifluoromethyl tetrasulfide	-	-	Group freq	Haszeldine	JCS	- (1953) 3219
C_2F_7AS	Bis-trifluoromethyl fluoroarsine	-	G,S	Group freq	Emeleus	JCS	- (1953) 1552
$C_2F_{10}S$	Bis-trifluoromethyl sulfur tetrafluoride	4.16-14.57μ	-	Table, I	Clifford	JCS	- (1953) 2372
C_2I_2	Diiodoacetylene	-	-	Force field, Bond dist	Linnett	TFS	45 (1949) 844
		-	-	Absorption freq, Assign	Meister	JCP	17 (1949) 212
		-	G	Thermo, Assign	Ziomek	JCP	17 (1949) 578
		-	G	Thermo	Ziomek	PR	75 (1949) 334
		-	-	C≡C freq	El-Sabban	JCP	20 (1952) 1810

C_3 COMPOUNDS

C_3HDO	Propynal-d_1	3600-200	G	Assign, Freq, Mol anal, Thermo	Brand	TFS	56 (1960) 1582
C_3HD_3	Methylacetylene-d_3	7852-10000	G	Mol anal	Herzberg	JCP	19 (1951) 136
		.7-1.2μ	G	Spec, Bond dist	Jones	JCP	20 (1952) 860
		300-3500	G	Spec freq assign	Christensen	TFS	52 (1956) 1439
		-	-	NCA, Assign	Sverdlov	OS	9 (1960) 432
C_3HD_6Br	β-Isopropyl bromide-d_6	-	Sol	Rate study	Shiner	JACS	74 (1952) 5285
C_3HBrF_5NO	2,2,3,3,3-Pentafluoro-N-bromopropionamide	-	-	Abs coeff	Park	JACS	76 (1954) 1388
C_3HBrF_6	1-Bromo-1,1,2,3,3,3-hexafluoropropane	3.34-14.6μ	-	I, Ident	Haszeldine	JCS	- (1953) 3559
C_3HClF_6	1-Chloro-1,2,2,3,3,3-hexafluoropropane	-	-	Ident	Haszeldine	JCS	- (1953) 1592
$C_3HCl_3O_2$	Trichloroacrylic acid	1600-700	-	Spec	Duval	RTC	69 (1950) 391
$C_3HCl_5O_2$	1,1,1,2-Tetrachloroethyl chloroformate	-	Sol	Substitution, Freq	Hales	JCS	- (1957) 618

$C_3HCl_5O_2$	1,2,2,2-Tetrachloro-ethyl chloroformate	-	Sol	Struct, Dissociation, Freq	Hales	JCS	- (1957) 618
C_3HF_3	Trifluoropropyne	2-15.5 μ	G	Spec	Haszeldine	JCS	- (1951) 2495
		2-16 μ	G	Spec	Henne	JACS	73 (1951) 1042
		-	G	Freq	Haszeldine	JCS	- (1952) 3483
		-	-	Freq	Haszeldine	JCS	- (1954) 1261
		-	G	Assign, L type doubling	Jaseja	PIAS	50 (1959) 108
C_3HF_5	1,1,3,3,3-Pentafluoro propene	-	-	Ident	Haszeldine	JCS	- (1954) 923
		-	-	Ident	Tarrant	JACS	77 (1955) 2783
C_3HF_5	1,2,3,3,3-Pentafluoro-propene	-	-	Ident	Haszeldine	JCS	- (1953) 1592
C_3HF_5O	Pentafluoropropionaldehyde	2-15 μ	G	Spec	Husted	JACS	74 (1952) 5422
		-	-	Freq	Haszeldine	JCS	- (1953) 1548
$C_3HF_5O_2$	Pentafluoropropionic acid	-	Sol	Freq	Bender	JACS	75 (1953) 5986
		-	-	Freq	Haszeldine	JCS	- (1953) 1548
		2-15 μ	L	Spec	Husted	JACS	75 (1953) 1605
		-	Sol	Freq	Haszeldine	JCS	- (1954) 4026
		-	-	H bond	Lawson	PR	95 (1954) 300A
		5.5-6.5 μ	Sol	C=O band, Ident	Sawicki	AC	31 (1959) 523
C_3HF_7	1,1,1,2,2,3,3-Hepta-fluoropropane	-	-	Pyrolysis study	Laferte	JACS	75 (1953) 4525
		-	-	Ident	Husted	JACS	76 (1954) 5141
C_3HF_7	1,1,1,2,3,3,3-Hepta-fluoropropane	-	-	Ident	Haszeldine	JCS	- (1953) 3559
C_3HN	Cyanoacetylene	-	-	Mom inert, Rot const	Westenberg	JACS	72 (1950) 199
		450-3400	G,L,S	Spec, Assign, FC	Turrell	JCP	26 (1957) 1544
		-	Sol	H bond	Murshashi	BCSJ	32 (1959) 1001
C_3HN^{15}	Cyanoacetylene (isotopic)	-	-	Mol const, Mom inert	Westenberg	JACS	72 (1950) 199
$C^{13}C_2HN$	Cyanoacetylene	-	-	Mol const, Mom inert	Westenberg	JACS	72 (1950) 199

$C_2C^{13}HN$	Cyanoacetylene (isotopic)	-	-	Mol const, Mom inert	Westenberg	JACS	72 (1950)	199
$C_2C^{13}HN$	Cyanoacetylene (isotopic)	-	-	Mol const, Mom inert	Westenberg	JACS	72 (1950)	199
C_3H_2DN	Vinyl cyanide-d_1	-	-	Struct, Mol const	Costain	JCP	30 (1959)	777
$C_3H_2D_2$	Allene-1,1-d_2	2-35μ	G	Spec	Fletcher	PR	95 (1954)	300A
		2-35μ	G	Spec, Assign	Evans	CJC	34 (1956)	1139
		1.6-38μ	G	Spec, Assign, NCA, Mol const	Shuler	JMS	1 (1957)	95
		3-20μ	G	Assign, Geom parameters	Eaton	PRS	250 (1959)	39
		-	-	NCA, Assign	Sverdlov	OS	9 (1960)	432
$C_3H_2D_2$	Allene-1,3-d_2	-	-	NCA, Assign	Sverdlov	OS	9 (1960)	432
$C_3H_2D_2$	Cyclopropene-d_2	-	-	Mol const, Struct, Dipole	Kasai	JCP	30 (1959)	512
$C_3H_2D_2O_4$	Malonic acid-d_2	500-1500	S	Spec, Assign	Hadzi	PRS	216 (1953)	247
$C_3H_2D_6$	Propane-d_6	2-15μ	G	Spec, Assign	McMurry	JCP	19 (1951)	1014
$C_3H_2D_6O$	β-Isopropyl alcohol-d_6	-	Sol	Rate study	Shiner	JACS	74 (1952)	5285
C_3H_2BrCl	1-Bromo-3-chloro-1-propyne	3.19-14.29μ	L	Band freq	Hatch	JACS	76 (1954)	289
$C_3H_2BrCl_2F$	3-Bromo-1,1-dichloro-2-fluoro-1-propene	2-15μ	L	Spec	Hatch	JACS	74 (1952)	3328
$C_3H_2BrF_3$	1-Bromo-1-trifluoromethylethylene	-	Sol	Freq, Spec	Potts	SA	15 (1959)	679
$C_3H_2BrF_3$	3-Bromo-1,1,1-trifluoro-trans-2-propene	-	-	Freq	Haszeldine	JCS	- (1952)	2504
C_3H_2BrI	3-Bromo-1-iodo-1-propyne	-	-	Freq	Hatch	JACS	77 (1955)	176
$C_3H_2Br_2$	1,3-Dibromopropyne	3.26-15.12μ	L	Table, Band freq	Hatch	JACS	76 (1954)	289
$C_3H_2Br_2O_3$	Dibromoethylene carbonate	-	-	Freq	Newman	JACS	77 (1955)	3787

$C_3H_2ClF_3$	3-Chloro-1,1,1-trifluoro-trans-2-propene	-	-	Freq	Haszeldine	JCS	- (1952) 2504
		-	-	Freq	Haszeldine	JCS	- (1953) 1199
C_3H_2ClI	3-Chloro-1-iodo-1-propyne	-	-	Freq	Hatch	JACS	77 (1955) 176
C_3H_2ClN	1-Chloro-1-cyanoethylene	-	Sol	Freq, Spec	Potts	SA	15 (1959) 679
C_3H_2ClN	2-Chloro-1-cyanoethylene	-	Sol	Freq, Spec	Potts	SA	15 (1959) 679
C_3H_2ClNS	1-Chloro-1-isothiocyanato ethylene	-	Sol	Freq, Spec	Potts	SA	15 (1959) 679
$C_3H_2Cl_2N_4$	2-Amino-4,6-dichloro-1,3,5-triazole	2-16μ	S	Spec, Struct	Padgett	JACS	80 (1958) 803
$C_3H_2Cl_2O_3$	1,2-Dichloroethylene carbonate	-	-	Strained ring at 5.40	Newman	JACS	75 (1953) 1263
		-	L	Struct, Dissociation	Hales	JCS	- (1957) 618
$C_3H_2Cl_3F$	2-Fluoro-1,1,3-trichloro-1-propene	2-15μ	L	Spec	Hatch	JACS	74 (1952) 3328
$C_3H_2Cl_4$	1,1,2,3-Tetrachloro-1-propene	2-15μ	L	Spec	Hatch	JACS	74 (1952) 3328
$C_3H_2Cl_4O$	1,1,3,3-Tetrachloro-acetone	-	L,G,S, Sol	Freq, Dipolar effect	Bellamy	JCS	- (1957) 4294
$C_3H_2Cl_6O$	1,1,1,3,3,3-Hexachloro-2-propanol	-	S,Sol	H bond	Haszeldine	JCS	- (1953) 1757
$C_3H_2Cl_6O_2$	$\alpha,\alpha,\alpha,\alpha',\alpha',\alpha'$-Hexachloro-acetone hydrate	600-3000	S	Freq, Spec	Anderson	SA	12 (1958) 233
C_3H_2FNO	Fluoropyruvonitrile	-	Sol	Freq	Blank	JCS	- (1955) 2190
$C_3H_2F_3I$	3-Iodo-1,1,1-trifluoro-trans-2-propene	-	-	Freq	Haszeldine	JCS	- (1952) 2504
$C_3H_2F_4$	1,3,3,3-Tetrafluoropropene	-	-	gr. freq	Haszeldine	JCS	- (1953) 1199
$C_3H_2F_5I$	3-Iodo-1,1,1,3,3-penta-fluoropropane	-	-	Ident, Freq	Haszeldine	JCS	- (1954) 923

$C_3H_2F_5NO$	Pentafluoropropionamide			Freq	Haszeldine	JCS	- (1953)	1745
		2-16 μ	S	Spec	Husted	JACS	75 (1953)	1605
$C_3H_2F_7O$	2,2,3,3-Tetrafluoropropanol	-	Sol	H bond, Bond freq	Haszeldine	JCS	- (1953)	1757
$C_3H_2N_2$	Malononitrile	4000-650	G,L	Spec, Assign, FC	Halverson	JCP	17 (1949)	694
		-	-	Freq	Kitson	AC	24 (1952)	334
		-	Sol	Shifts & mol struct	Felton	JCS	- (1955)	2170
		-	-	Freq	Wilmshurst	CJC	35 (1957)A	937
		2200-2300	Sol	Freq, Struct	Jesson	SA	13 (1958)	217
		-	G	Micro spec, Struct	Hirota	BCSJ	33 (1960)	158
$C_3H_2N_2O_3$	Parabanic acid	-	S	H bond	Badger	PNAS	40 (1954)	12
C_3H_2O	Propiolic aldehyde	18.37 KMc/sec	G	Microwave	Howe	JCP	23 (1955)	1223
		-	G	Microwave, Mol consts, Struct	Costain	JCP	31 (1959)	389
		3600-200	G	Assign, Freq, Mol anal, Thermo	Brand	TFS	56 (1960)	1582
$C_3H_2O_3$	Acetylene carbonate	-	Sol,L	Freq, Struct, Dissociation	Hales	JCS	- (1957)	618
$C_3H_2O_3$	Vinylene carbonate	-	-	Freq	Newmann	JACS	75 (1953)	1263
		-	G	Microwave, Struct	Slayton	JCP	22 (1954)	1678
		-	-	Freq	Newman	JACS	77 (1955)	3789
$C_3H_2O_4$	Malonic acid ion	-	-	FC	Linnett	TFS	41 (1945)	223
$C_3H_2S_3$	1,2-Dithiacyclopent-4-ene-3-thione	-	Sol	Struct, Spec	Challengers	JCS	- (1953)	292
$C_3H_2S_3$	1,3-Dithiacyclopent-4-ene-2-thione	-	Sol	Struct, Spec	Challengers	JCS	- (1953)	292
C_3H_3D	Allene-d_1	-	-	NCA, Assign	Sverdlov	OS	9 (1960)	432
C_3H_3D	Cyclopropene-d_1	-	-	Mol const, Struct, Dipole	Kasai	JCP	30 (1959)	512
C_3H_3D	Propyne-d_1	-	-	Assign, FC	Meister	JCP	16 (1948)	950
		-	-	Thermo, Moment of inertia	Ziomek	JCP	17 (1949)	578
		-	G	Thermo	Ziomek	PR	75 (1949)	334
		3-40 μ	G	Spec, Assign, Mol consts	Grisenthwaite	TFS	50 (1954)	212

		-	G	Mol anal	Christensen	TFS	52 (1956) 1439
$C_3H_3DO_4$	Malonic acid-d_1	-	-	Freq	Bratoz	SA	8 (1956) 249
$C_3H_3D_3O_2$	Methyl acetate-d_3	700-4000	Sol	Spec	Nolin	CJC	34 (1956) 1382
C_3H_3Br	Bromopropadiene	-	L	Freq	Jacobs	JACS	75 (1953) 1314
		-	-	Freq	Sammul	JACS	75 (1953) 4856
C_3H_3Br	1-Bromopropyne	-	-	Assign, FC	Meister	JCP	16 (1948) 950
		-	-	Assign, Thermo	Ziomek	JCP	17 (1949) 578
		-	G	Thermo	Ziomek	PR	75 (1949) 334
		2-16μ	L	Spec, Table	Wotiz	JACS	72 (1950) 5055
		-	-	Freq	El-Sabban	JCP	20 (1952) 1810
		3-9.75μ	L	Table, Freq	Hatch	JACS	76 (1954) 289
		300-3800	Sol,S	Freq, Deformation	Nyquist	SA	16 (1960) 417
C_3H_3Br	3-Bromopropyne	-	L	Freq	Jacobs	JACS	75 (1953) 1314
		2-15μ	L,Sol	Freq	Kitson	AC	25 (1953) 1470
		-	-	Band study	Sammul	JACS	75 (1953) 4856
		-	-	Band study	Hatch	JACS	76 (1954) 289
		-	-	Band study	Hatch	JACS	77 (1955) 176
$C_3H_3Br^{79}$	Methylbromoacetylene (isotopic)	-	G	Microwave	Sheridan	JCP	20 (1952) 735
$C_3H_3Br^{81}$	Methylbromoacetylene (isotopic)	-	G	Microwave	Sheridan	JCP	20 (1952) 735
$C_3H_3BrO_4$	Bromomalonic acid	-	-	Isotope effect	Pitzer	JCP	17 (1949) 341
$C_3H_3Br_3O_2$	Tribromomethyl acetate	3000	-	Assign	Josien	CPR	246 (1958) 1992
		2900	G,Sol	Assign, Resonance	Deschamps	BSCF	88 (1959) 88
C_3H_3Cl	Chloropropadiene	-	L	Freq	Jacobs	JACS	75 (1953) 1314
C_3H_3Cl	1-Chloropropyne	-	-	Assign, FC	Meister	JCP	16 (1948) 950
		-	-	Assign, Thermo	Ziomek	JCP	17 (1949) 578
		-	G	Thermo	Ziomek	PR	75 (1949) 334
		-	-	Freq	El-Sabban	JCP	20 (1952) 1810
C_3H_3Cl	3-Chloropropyne	-	L	Freq	Jacobs	JACS	75 (1953) 1314
		-	-	Band	Hatch	JACS	76 (1954) 289

		-	-	Band	Hatch	JACS	77 (1955)	176
		-	G	Micro spec, Mol consts	Hirota	JCP	29 (1958)	444
		3800-300	Sol,S	Freq, Deformation	Nyquist	SA	16 (1960)	417
$C_3H_3Cl^{35}$	Methylchloroacetylene (isotopic)	-	-	Microwave	Costain	JCP	23 (1955)	2037
$C_3H_3Cl^{37}$	Methylchloroacetylene (isotopic)	-	-	Microwave	Costain	JCP	23 (1955)	2037
$CC^{13}CH_3Cl^{35}$	Methylchloroacetylene (isotopic)	-	-	Microwave	Costain	JCP	23 (1955)	2037
$CC^{13}CH_3Cl^{35}$	Methylchloroacetylene (isotopic)	-	-	Microwave	Costain	JCP	23 (1955)	2037
$C^{13}C_2H_3Cl^{37}$	Methylchloroacetylene (isotopic)	-	-	Microwave	Costain	JCP	23 (1955)	2037
$CC^{13}CH_3Cl^{37}$	Methylchloroacetylene (isotopic)	-	-	Microwave	Costain	JCP	23 (1955)	2037
$C_3H_3ClF_4O$	Chloromethyl $\alpha,\alpha,\beta,\beta$ tetrafluoroethyl ether	-	-	Spec	Park	JACS	74 (1952)	2292
$C_3H_3ClN_2$	α-Amino-β-chloro-acrylonitrile	-	-	Spec, Anal	Erickson	JACS	71 (1949)	76
$C_3H_3ClN_2$	β-Amino-α-chloro-acrylonitrile	2-15 μ	-	Freq, Anal	Erickson	JACS	71 (1949)	76
C_3H_3ClO	Ethylenecarbonyl chloride	-	Sol	H bond, Freq	Baker	JACS	82 (1960)	1923
$C_3H_3ClO_2$	2-Chloropropenoic acid	-	Sol	Freq, Spec	Potts	SA	15 (1959)	679
$C_3H_3ClO_2$	cis-3-chloropropenoic acid	2-15 μ	Sol	Spec	Wolfe	JACS	76 (1954)	627
$C_3H_3ClO_2$	trans-3-chloropropenoic acid	2-15 μ	Sol	Spec	Wolfe	JACS	76 (1954)	627
$C_3H_3ClO_3$	Chloroethylene carbonate	-	-	Strained ring	Newman	JACS	75 (1953)	1263

		-	L	Freq, Struct, Dissociation	Hales	JCS	- (1957) 618
$C_3H_3Cl_2F$	1,1-Dichloro-2-fluoro-1-propene	2-15μ	L	Spec	Hatch	JACS	74 (1952) 3328
$C_3H_3Cl_2F$	1,3-Dichloro-2-fluoro-2 propene	2-16μ	L	Spec	Hatch	JACS	74 (1952) 2911
$C_3H_3Cl_2FO$	3,3-Dichloro-2-fluoro-2-propene-1-ol	2-15μ	L	Spec	Hatch	JACS	74 (1952) 3328
$C_3H_3Cl_2F_3$	1,1-Dichloro-3,3,3-trifluoropropane	-	-	Group freq, Struct	Haszeldine	JCS	- (1953) 1199
$C_3H_3Cl_2F_3$	1,2-Dichloro-3,3,3-trifluoropropane	-	-	Group & band freq	Haszeldine	JCS	- (1953) 1199
$C_3H_3Cl_2F_3O$	Chloromethyl β-chloro-trifluoroethyl ether	-	-	Spec	Park	JACS	74 (1952) 2292
$C_3H_3Cl_3$	1,1,2-Trichloro-1-propene	2-15μ	L	Spec	Hatch	JACS	74 (1952) 3328
$C_3H_3Cl_3$	1,1,3-Trichloro-1-propene	2-15μ	L,Sol	Group freq	Kitson	AC	25 (1953) 1470
$C_3H_3Cl_3$	1,2,3-Trichloro-1-propene	2-16μ	L	Spec	Hatch	JACS	74 (1952) 123
$C_3H_3Cl_3$	3,3,3-Trichloro-1-propene	500-3000	L,G	Spec, Assign	Shull	JCP	27 (1957) 399
$C_3H_3Cl_3F_2O$	Chloromethyl β,β-dichloro-α,α-difluoroethyl ether	-	-	Spec	Park	JACS	74 (1952) 2292
$C_3H_3Cl_3NB$	Vinylcyanide boron trichloride complex	-	Sol	Freq	Gerrard	JCS	- (1960) 2182
$C_3H_3Cl_3O$	2,3,3-Trichloro-2-propen-1-ol	2-15μ	L	Spec	Hatch	JACS	74 (1952) 3328
$C_3H_3Cl_3O_2$	Methyl trichloroacetate	-	L	Band freq, Group freq	Flett	JCS	- (1952) 3355
		3000	-	Assign	Josien	CPR	246 (1958) 246
		2900	G,Sol	Assign, Resonance	Deschamps	BSCF	- (1959) 88
$C_3H_3Cl_5$	1,1,2,2,3-Pentachloro propane	2-15μ	L	Spec	Hatch	JACS	74 (1952) 3328

C_3H_3F	Fluoromethylacetylene	300-3800	S,Sol	Freq	Nyquist	SA	16	(1960)	417
$C_3H_3FO_3$	Fluoropyruvic acid	-	Sol	Freq	Blank	JCS	-	(1955)	2190
		2-15 μ	-	Spec	Thomas	N	175	(1955)	424
$C_3H_3F_3$	3,3,3-Trifluoro-1-propene	-	Sol	Freq, Spec	Potts	SA	15	(1959)	679
$C_3H_3F_3O$	1,1,1-Trifluoroacetone	2-15.5 μ	G	Spec, Group freq	Haszeldine	JCS	-	(1952)	3483
		-	-	Freq	Haszeldine	JCS	-	(1954)	1261
		-	G	Freq	Bellamy	JCS	-	(1957)	4294
		-	Sol	Freq	Rao	JPC	63	(1959)	1311
$C_3H_3F_3O_2$	Methyl trifluoroacetate	3000	-	Assign	Josien	CPR	246	(1958)	1992
		2900	Sol	Assign, Resonance	Deschamps	BSCF	-	(1959)	88
$C_3H_3F_4I$	1-Iodo-1,3,3,3-tetrafluoropropane	-	-	Struct	Haszeldine	JCS	-	(1953)	1199
$C_3H_3F_5O$	2,2,3,3,3-Pentafluoropropanol	-	L,Sol	H bond	Haszeldine	JCS	-	(1953)	1757
		2-15 μ	L	Spec	Husted	JACS	75	(1953)	1605
$C_3H_3F_5O_2$	1,1-Dihydroxy-2,2,3,3,3-pentafluoropropane	2-14.7 μ	S	Spec, Group freq	Husted	JACS	74	(1952)	5422
$C_3H_3F_6AS$	Bis-trifluoromethylarsine	-	G,S	Group freq	Emeleus	JCS	-	(1953)	1552
C_3H_3I	1-Iodo-1-propyne	-	-	Assign, FC	Meister	JCP	16	(1948)	950
		-	-	Thermo	Ziomek	JCP	17	(1949)	578
		-	-	Assign, Thermo	Ziomek	PR	75	(1949)	334
		-	G	Microwave	El-Sabban	JCP	20	(1952)	1810
		-	-	Freq	Sheridan	JCP	20	(1952)	735
		300-3800	Sol,S	Freq	Nyquist	SA	16	(1960)	417
C_3H_3I	3-Iodo-1-propyne	-	-	Band freq	Hatch	JACS	77	(1955)	176
C_3H_3N	Acrylonitrile	900-1800	-	Spec, Anal	Barnes	IEC	15	(1943)	83
		500-2400	G,L	Assign, Spec	Thompson	JCS	-	(1944)	597
		2.5-25 μ	G,L	Spec, I, Assign	Halverson	JCP	16	(1948)	808
		-	-	Thermo	Stamm	JCP	17	(1949)	104
		-	-	FC	Torkington	PRS	206	(1951)	17
		-	-	Freq, I	Kitson	AC	24	(1952)	334
		-	Sol	Group freq	Davison	JCS	-	(1953)	2607
		-	-	Anal, Struct	Foster	JACS	75	(1953)	2910
		-	-	Microwave	Wilcox	JCP	22	(1954)	516

		8-11μ	Sol	Spec, Ident	Dupre	AC	27	(1955)	1878
		-	Sol	Freq, I	Felton	JCS	-	(1955)	2170
		-	-	Ident	Patterson	AC	27	(1955)	574
		-	Sol	Freq, I, Ext coeff	Skinner	JCS	-	(1955)	487
		-	Sol	Ext coeff	Goddu	AC	29	(1957)	1790
		-	Sol	Quant anal	Kiley	AC	29	(1957)	1553
		2200-2300	Sol,G	Freq, Struct	Jesson	SA	13	(1958)	217
		4.48μ	Sol	Absorption	Adams	AC	31	(1959)	960
		-	-	Mol const, Struct	Costain	JCP	30	(1959)	777
		-	L,Sol	Freq, I	Foffani	NC	13	(1959)	213
		-	Sol	Freq, Spec	Potts	SA	15	(1959)	679
		2920-2200	L	Anal	Small	AC	31	(1959)	1742
		-	G	Spec, Anal, Mol consts, Stark effect	Wilcox	DA	19	(1959)	2498
		-	Sol	Freq	Gerrard	JCS	-	(1960)	2182
$C_3^{13}H_3N$	Vinycyanide (isotopic)	-	-	Struct, Mol const	Costain	JCP	30	(1959)	777
$C_3^{13}H_3N$	Vinylcyanide (αC^{13}) (isotopic)	-	-	Struct, Mol const	Costain	JCP	30	(1959)	777
$C_3^{13}H_3N$	Vinylcyanide (βC^{13}) (isotopic)	-	-	Struct, Mol const	Costain	JCP	30	(1959)	777
$C_3H_3N^{15}$	Vinylcyanide (isotopic)	-	-	Struct, Mol const	Costain	JCP	30	(1959)	777
C_3H_3NO	Acetyl cyanide	4000-700	L	Spec, Struct anal	Marvel	JACS	71	(1949)	34
		-	Sol,L	Freq, I	Foffan	NC	13	(1959)	213
		8-34K Mc/sec	G	Micro spec, Mol consts	Krisher	JCP	31	(1959)	882
		-	G	Microwave	Krisher	JCP	33	(1960)	340
C_3H_3NO	Isoxazole	576-3145	G	Spec, Assign	Borello	GCI	89	(1959)	1437
		300-3600	G,L	Spec, Assign	Califano	SA	15	(1959)	86
$C_3H_3NO_2$	α-Cyanoacetic acid	700-4000	S,L	Table, Freq	Flett	JCS	-	(1951)	962
		-	Sol	Dissociation const	Goulden	SA	6	(1954)	129
		-	Sol	Dissociation const	Bawin	CJC	35	(1957)	1555
C_3H_3NS	Ethylene thiocyanate	-	Sol	Freq, Spec	Potts	SA	15	(1959)	679
C_3H_3NS	Ethylene isothiocyanate	-	Sol	Freq, Spec	Potts	SA	15	(1959)	679

C_3H_3NS	Thiazole	600-3600	L	Spec, Freq	Taurins	[illegible]	[illegible]	[illegible]	[illegible]
$C_3H_3NS_2$	2-Thiothiazolone	2-12 μ	Sol	Spec	Ettlinger	JACS	72	(1950)	4699
$C_3H_3N_3$	1,3,5-Triazine	2-15 μ	Sol	Spec, Vib assign	Goubeau	JPC	58	(1954)	1078
		2-15 μ	Sol	Spec	Grundmann	JACS	76	(1954)	5646
		2-25 μ	G,L,S	Freq, Assign	Lancaster	JCP	22	(1954)	1149
		2-16 μ	S	Spec, Struct	Padgett	JACS	80	(1958)	803
$C_3H_3N_3O_3$	Cyanuric acid	800-1300	-	Christiansen effect	Price	JCP	16	(1948)	1157
		500-3600	S	Spec, Assign	Newman	JACS	74	(1952)	3545
		-	-	Ident	Kaiser	JOC	18	(1953)	1610
		-	S	H bond, Spec	Padgett	AC	29	(1957)	166a
		2-15 μ	-	Spec	Finkel'shtein	OS	5	(1958)	264
		2-16 μ	Sol	Spec, Struct	Padgett	JACS	80	(1958)	803
C_3H_4	Allene	1-15.5 μ	G	Freq, FC	Bonner	PR	52	(1937)	249A
		-	-	FC	Thompson	JCS	-	(1937)	1384
		-	-	Spec, Bond dist & angle	Eyster	JCP	6	(1938)	580
		500-4500	G	Spec, Assign	Linnett	JCP	6	(1938)	686
		-	-	Thermo	Kistiakowsky	JCP	8	(1940)	610
		730-1230	G	Coriolis interaction	Nielsen	JOSA	34	(1944)	521
		3-20 μ	G	Spec, Freq	Thompson	TFS	40	(1944)	295
		-	-	FC	Walsh	TFS	42	(1946)	779
		-	G	Press broadening	Seyfried	IEC	19	(1947)	298
		-	-	Mol anal, Assign	Herman	JCP	17	(1949)	30
		-	-	Thermo	Kilpatrick	JRNB	42	(1949)	225
		3.1-14 μ	G	Mol spec	Miller	PRS	200	(1949)	1
		-	-	Doubling theory	deHeer	PR	83	(1951)	741
		-	-	LCAO calculation, Freq	Parr	JCP	19	(1951)	497
		-	-	FC	Torkington	PRS	206	(1951)	17
		-	-	Interaction theory	deHeer	JCP	20	(1952)	637
		-	-	FC, Bond length, Orbits	Longuet	TFS	48	(1952)	1077
		250-5000	G	Mol anal, Spec	Lord	AC	24	(1952)	604A
		-	-	Micro absorption	Venkateswarlu	BAPS	27	(1952)	11A
		-	-	Rot theory	Mizushima	JCP	21	(1953)	1223
		2985-3025	G	Spec	Overend	JOSA	43	(1953)	1065
		-	-	Purity test	Haszeldine	JCS	-	(1954)	2040
		-	-	Mol spec, Struct	Lord	JOSA	44	(1954)	256
		28 μ	G	Rot band, Spec	Rao	JCP	23	(1955)	2112
		733-3771	G	Mol spec, Mol consts	Overend	TFS	52	(1956)	1295
		2-15 μ	G	Spec	Pierson	AC	28	(1956)	1218
		25-35 μ	G	Struct, Mol consts	Rao	JMS	1	(1957)	24
		-	-	Bond length	Overend	JCP	29	(1958)	1002

C_3H_4	Cyclopropene	700-1700	-	Determination	Takeshita	KKZ	59	(1956)	648
		-	-	Mol consts, Struct, Dipole	Kasai	JCP	30	(1959)	512
C_3H_4	Propyne	-	-	Assign	Adel	JCP	2	(1934)	627
		-	-	Spec	Badger	JCP	5	(1937)	599
		-	-	Quant mech	Glockler	JCP	5	(1937)	813
		-	-	Bond dist	Herzberg	JPC	41	(1937)	123
		-	-	Theory, Freq assign	Wall	JACS	60	(1938)	71
		-	-	Freq assign	Crawford	JCP	7	(1939)	140
		2.5-25μ	G	Spec, Thermo	Crawford	JCP	8	(1940)	526
		-	-	Thermo	Kistiakowsky	JCP	8	(1940)	610
		-	-	Isotopic effect	Cleveland	JCP	9	(1941)	390
		-	-	FC	Crawford	JCP	9	(1941)	69
		-	-	Pot fn, FC	Linnett	TFS	37	(1941)	469
		-	-	Thermo	Wagman	JRNB	35	(1945)	467
		-	-	FC, Bond dist	Gordy	JCP	14	(1946)	305
		-	-	FC, Bond order	Walsh	TFS	42	(1946)	779
		-	-	Press broadening	Seyfried	IEC	19	(1947)	298
		-	-	FC	Walsh	TFS	43	(1947)	60
		-	-	FC, Assign	Meister	JCP	16	(1948)	950
		-	-	Inertia, Bond dist	Ziomek	JCP	17	(1949)	578
		-	-	Mol consts, Struct	Herzberg	JCP	19	(1951)	136
		3-40μ	G	Spec, Assign, Mol consts	Boyd	TFS	48	(1952)	493
		-	-	Bond freq	El-Sabban	JCP	20	(1952)	1810
		-	-	Bending freq	Ferigle	JCP	20	(1952)	1928
		-	-	Bond freq	Haszeldine	JCS	-	(1952)	3483
		2115-2160	G	Spec, Mol anal	Boyd	TFS	49	(1953)	141
		-	-	Freq	Haszeldine	JCS	-	(1954)	1261
		500-3000	-	Theory	Bellamy	JCS	-	(1956)	2753
		-	G	Mol anal	Christensen	TFS	52	(1956)	1439
		2-15μ	G	Spec	Pierson	AC	28	(1956)	1218
		1-4mm	-	Mol consts, Rot transition	Burrus	JCP	26	(1957)	391
		25-35μ	G	Resolution, Struct	Rao	JMS	1	(1957)	24
		-	G	Freq, Assign, Doubling	Jaseja	PIAS	50	(1959)	108
		300-3800	Sol,S	Freq	Nyquist	SA	16	(1960)	417
		30-50μ	G	Spec, Mol consts	Robinson	JCP	32	(1960)	556
$C_3H_4D_2$	Methylethylene-d_2	-	-	Freq assign	Farina	GCI	90	(1960)	973
$C_3H_4D_2Br_2$	1,2-Dibromo-2-methyl-ethane-d	-	-	Freq assign	Farina	GCI	90	(1960)	973

C_3H_4BrCl	1-Bromo-3-chloro-1-propene	6.35-14.5μ	L	Table	Hatch	JACS	75 (1953) 6002
		-	L	Band freq, Isomerism	Harwell	JACS	77 (1955) 1682
$C_3H_4BrF_3$	3-Bromo-1,1,1-trifluoro propane	2-15.5μ	L	Spec	Haszeldine	JCS	- (1952) 2504
C_3H_4BrN	β-Bromopropionitrile	-	-	Band freq	Kitson	AC	24 (1952) 334
		2200-2300	Sol	Freq, Struct	Jesson	SA	13 (1958) 217
$C_3H_4Br_2$	1,3-Dibromopropene	3.22-14.7μ	L	Table	Hatch	JACS	75 (1953) 6002
		-	L	Band freq	Harwell	JACS	77 (1955) 1682
		-	Sol	Freq, Spec	Potts	SA	15 (1959) 679
$C_3H_4Br_2$	2,3-Dibromopropene	-	Sol	Freq, Spec	Potts	SA	15 (1959) 679
C_3H_4ClF	1-Chloro-2-fluoro-1-propene	2-16μ	L	Spec	Hatch	JACS	74 (1952) 2911
C_3H_4ClFO	3-Chloro-2-fluoro-2-propen-1-ol	2-16μ	L	Spec	Hatch	JACS	74 (1952) 2911
$C_3H_4ClF_3$	2-Chloro-1,1,1-trifluoro-propane	-	-	Isomers	Haszeldine	JCS	- (1953) 1199
$C_3H_4ClF_3O$	Chloromethyl α,α,β-trifluoroethyl ether	-	-	Spec	Park	JACS	74 (1952) 2292
C_3H_4ClN	3-Chloropropanenitrile	-	-	Bond freq, I	Kitson	AC	24 (1952) 334
		2200-2300	Sol	Freq, Struct	Jesson	SA	13 (1958) 217
$C_3H_4ClN_5$	2,4-Diamino-6-chloro-1,3,5-triazine	2-16μ	S	Spec, Struct	Padgett	JACS	80 (1958) 803
$C_3H_4Cl_2$	1,1-Dichlorocyclopropane	2-16μ	L,Sol	Spec, Anal	Slabey	JACS	74 (1952) 4928
		-	L,Sol	Band freq	Slabey	JACS	76 (1954) 3604
$C_3H_4Cl_2$	1,2-Dichlorocyclopropane	2-16μ	L,Sol	Spec, Anal	Slabey	JACS	74 (1952) 4928
		-	L,Sol	Band freq	Slabey	JACS	76 (1954) 3604
$C_3H_4Cl_2$	1,1-Dichloro-1-propene	2-25μ	L	Spec, Bond freq	Pennino	JOC	20 (1955) 530
$C_3H_4Cl_2$	1,2-Dichloro-1-propene	400-1200	G,L	Spec	Bernstein	JACS	73 (1951) 1843
$C_3H_4Cl_2$	1,3-Dichloro-1-propene	-	-	Bond freq	Haszeldine	JCS	- (1952) 2504

		2.5-15 μ	L	Spec	Wolfe	JACS	76 (1954)	627
		-	Sol	Freq, Spec	Potts	SA	15 (1959)	679
$C_3H_4Cl_2$	2,3-Dichloro-1-propene	-	Sol	Freq, Spec	Potts	SA	15 (1959)	679
$C_3H_4Cl_2$	3,3-Dichloro-1-propene	-	Sol	Freq, Spec	Potts	SA	15 (1959)	679
$C_3H_4Cl_2F_2O$	Chloromethyl β-chloro-α,α-difluoromethyl ether	-	-	Spec	Parks	JACS	74 (1952)	2292
$C_3H_4Cl_2F_2O$	1,1-Difluoro-2,2-dichloroethyl methyl ether	3-15 μ	G,L	Spec	Parks	JACS	73 (1951)	861
$C_3H_4Cl_2O$	1,1-Dichloropropanone	-	G,L,Sol	Freq	Bellamy	JCS	- (1957)	4294
$C_3H_4Cl_2O$	1,3-Dichloropropanone	270-5000	L,G	Spec, Rot isomers	Daasch	JACS	77 (1955)	6156
		-	G,L,Sol	Freq	Bellamy	JCS	- (1957)	4294
$C_3H_4Cl_2O$	2,3-Dichloro-2-propen-1-ol	2-16 μ	L	Spec	Hatch	JACS	74 (1952)	123
$C_3H_4Cl_2O_2$	2-Chloroethyl chloroformate	-	Sol	Freq, Struct, Dissociation	Hales	JCS	- (1957)	618
$C_3H_4Cl_4O_2 \cdot 3H_2O$	Tetrachloroacetone trihydrate	600-3000	S	Spec	Anderson	SA	12 (1958)	233
$C_3H_4F_3NO_2$	1,1,1-Trifluoro-3-nitropropane	2-16 μ	G	Spec	Shechter	JACS	72 (1950)	3371
$C_3H_4F_4O$	1,1,2,2-Tetrafluoroethyl methyl ether	2-15 μ	G,L	Spec	Park	JACS	73 (1951)	1329
$C_3H_4F_5N$	1,1-Dihydroperfluoropropylamine	2-15 μ	G,L	Spec	Husted	JACS	75 (1953)	1605
$C_3H_4N_2$	Imidazole	625-4000	S	Spec, Assign	Garfinkel	JACS	80 (1958)	3807
$C_3H_4N_2OS$	Cyanomethylthiol carbamate	-	S	Band freq	Davies	JCS	- (1951)	2595
$C_3H_4N_2OS$	Thiocyanatoacetamide	-	S	Bond freq	Davies	JCS	- (1951)	2595

$C_3H_4N_2OS$	2-Thiohydrantoin	2500-800	S	Bond assign	Elmore	JCS	- (1958) 3489
$C_3H_4N_2O_2$	Hydantoin	-	S	Ident	Smith	JACS	76 (1954) 6080
$C_3H_4N_2O_2S$	2-Thiobarbituric acid	2-12 μ	Sol	Spec, Assign, Group freq	Lacher	JPC	59 (1955) 615
$C_3H_4N_2O_3$	3-Nitroacrylamide	-	S	Struct, Bond freq	Shechter	JACS	74 (1952) 3052
$C_2H_4N_2S$	2-Aminothiazole	3-6 μ	Sol	Spec, Struct	Angyal	JCS	- (1952) 2911
		-	-	Spec	Sheinker	DANS	131 (1960) 1366
$C_3H_4N_4$	3-Amino-1,2,4-triazine	3 μ	Sol	Freq, FC, Dipole	Mason	JCS	- (1958) 3619
$C_3H_4N_4$	β-Azidopropionitrile	2-16 μ	Sol	Spec	Boyer	JACS	73 (1951) 5248
$C_3H_4N_4O$	Ammelide	2-16 μ	S	Spec, Struct	Padgett	JACS	80 (1958) 803
C_3H_4O	Acrolein	-	-	FC	Walsh	TFS	43 (1947) 158
		-	G	Anal	Badin	JACS	72 (1950) 1550
		-	Sol	Bond freq, I	Barrow	JCP	21 (1953) 2008
		-	Sol	Bond freq	Davison	JCS	- (1953) 2607
		-	G	Microwave, Isomerism	Fine	JCP	23 (1955) 601
		2-15 μ	G	Spec	Pierson	AC	28 (1956) 1218
		1.6-2.1 μ	Sol	Ext coeff	Goddu	AC	29 (1957) 1790
		-	Sol	Freq, Spec	Potts	SA	15 (1959) 679
C_3H_4O	2-Propyn-1-ol	2-16 μ	L	Spec	Wotiz	JACS	72 (1950) 5055
		-	Sol	Sol effect on IR	Brown	SA	10 (1958) 149
		300-3800	Sol,S	Freq	Nyquist	SA	16 (1960) 417
$C_3H_4O_2$	Acrylic acid	700-4000	L,S	Bond freq	Flett	JCS	- (1951) 962
		-	Sol	Bond freq	Davison	JCS	- (1953) 2607
		-	Sol	Ext coeff	Goddu	AC	29 (1957) 1790
		-	Sol	Freq, Spec	Potts	SA	15 (1959) 679
$C_3H_4O_2$	1,3-Dioxopropane	600-2000	-	Spec, Freq	Tate	BSCF	- (1960) 365
$C_3H_4O_2$	Propiolactone	1600-1800	S	Freq	Hall	JACS	80 (1958) 6728
$C_3H_4O_2$	β-Propiolactone	2-16 μ	Sol	Spec, Band freq	Bartlett	JACS	73 (1951) 4275
		5.2-6.0 μ	Sol	Spec, H bond	Searles	JACS	75 (1953) 71
		-	-	Microwave	Kwak	JCP	23 (1955) 2450
		-	-	Struct	Murr	JACS	77 (1955) 4430

$C_3H_4O_2$	Pyruvaldehyde	660-4000	-	Spec, Taut	Josien	BSCF	-	(1957)	1148
$C_3H_4O_3$	Ethylene carbonate	-	-	Band freq, Ident	Newman	JACS	76	(1954)	1840
		-	Sol,L,S	Struct, Dissociation	Hales	JCS	-	(1957)	618
		1600-1800	L,S	Freq	Hall	JACS	80	(1958)	6428
		1600-1850	Sol,L,G	Freq	Bellamy	TFS	55	(1959)	14
$C_3H_4O_3$	2-Ketopropanoic acid	-	-	FC	Linnett	TFS	41	(1945)	223
		-	-	Band freq	King	JACS	77	(1955)	2217
		2-15μ	L	Spec	Thomas	N	175	(1955)	424
		-	L	H bond, Band freq	Bergmann	JCS	-	(1956)	1519
		660-4000	-	Spec, Taut	Hosien	BSCF	-	(1957)	1148
		2-9μ	Sol	Spec, Freq	Jencks	ABB	88	(1960)	193
		-	Sol	H bond	Oki	BCSJ	33	(1960)	119
$C_3H_4O_4$	Malonic acid	-	-	FC	Linnett	TFS	41	(1945)	223
		-	-	Isotopic effect	Pitzer	JCP	17	(1949)	1341
		700-4000	S,L	Bond freq, Association	Flett	JCS	-	(1951)	962
		500-1500	S	Spec, Assign	Hadzi	PRS	216	(1953)	247
		-	Sol	Bond freq	Fraenkel	JACS	76	(1954)	15
		-	-	Freq	Bratoz	SA	8	(1956)	249
		680-2500	-	Spec	Hadzi	JC	11	(1959)	715
		2-15μ	S	Freq assign, Spec	Schmelz	JACS	81	(1959)	287
$C_3H_4O_4$	Methyl oxalate	-	-	Spec	Walton	JACS	79	(1957)	3985
		-	Sol	H bond	Oki	BCSJ	33	(1960)	119
$C_3H_4S_3$	Ethylene trithiocarbonate	600-1900	Sol	Spec, Freq	Jones	JCS	-	(1957)	614
C_3H_5D	Cyclopropane-d_1	-	-	Mol const, Struct, Dipole	Kasai	JCP	30	(1959)	512
C_3H_5D	Propene-1-d_1	2-25μ	-	Band freq	Rabinovitch	JACS	75	(1953)	2652
C_3H_5D	Propene-2-d_1	-	-	Freq assign	Farina	GCI	90	(1960)	973
$C_3H_5DO_2$	Propionic acid-d_1	1-14μ	G	Spec, H bond	Herman	JCP	7	(1939)	460
		2.8-5.0μ	Sol	Spec, H bond	Wall	JACS	61	(1939)	2812
		-	-	Assiciation	Davies	JCP	16	(1948)	267
		750-1500	L,Sol	IR, Spec, Assign	Hadzi	PRS	216	(1953)	247
$C_3H_5D_2BrO$	1-Bromo-2-hydroxy-1-methylethane-d_2	-	-	Freq assign	Farina	GCI	90	(1960)	973

C_3H_5T	Cyclopropane-t_1	-	G	Quant mech	Lindquist	JCP	24 (1956) 725
C_3H_5Br	Bromocyclopropane	2-16μ	-	Spec, Band freq	Roberts	JACS	73 (1951) 5030
C_3H_5Br	1-Bromo-1-propene	-	L	Group freq	Jacobs	JACS	75 (1953) 1314
C_3H_5Br	cis-1-Bromo-1-propene	3.1-3.4μ	L	Table	Hatch	JACS	75 (1953) 6002
		3-6μ	L	Spec, Freq	Harwell	JACS	77 (1955) 1682
C_3H_5Br	trans-1-Bromo-1-propene	-	-	Bond freq	Haszeldine	JCS	- (1952)C 2504
		-	-	Freq, Assign	Farina	GCI	90 (1960) 973
C_3H_5Br	2-Bromo-1-propene	-	L	Anal	Harwell	JACS	77 (1955) 1682
		-	-	Freq, Assign	Farina	GCI	90 (1960) 973
C_3H_5Br	3-Bromo-1-propene	3-20μ	L	Spec, Assign	Thompson	TFS	42 (1946) 432
		-	-	Ext coeff	Bateman	JCS	- (1950) 936
		-	L	Group freq	Jacobs	JACS	75 (1953) 1314
		2-15μ	L,Sol	Group freq	Kitson	AC	25 (1953) 1470
		-	Sol	Group freq, Spec	Potts	SA	15 (1959) 679
C_3H_5BrO	cis-3-Bromo-2-propene-1-ol	3-13.8μ	L	Table	Hatch	JACS	75 (1953) 6002
		-	L	Band freq, Anal	Harwell	JACS	77 (1955) 1682
C_3H_5BrO	trans-3-Bromo-2-propene-1-ol	3-13.9μ	L	Table	Hatch	JACS	75 (1953) 6002
		-	L	Band freq, Anal	Harwell	JACS	77 (1955) 1682
C_3H_5BrO	Epibromohydrin	1-3.1μ	Sol	Terminal expxides	Goddu	AC	30 (1958) 2013
$C_3H_5BrO_2$	β-Bromopropionic acid	-	Sol	Freq & dissoc const	Goulden	SA	6 (1954) 129
C_3H_5Cl	1-Chloro-1-propene	-	L	Freq, Assign	West	TFS	27 (1931) 145
		2-15μ	L,Sol	Group freq	Kitson	AC	25 (1953) 1470
		-	Sol	Group freq, Spec	Potts	SA	15 (1959) 679
C_3H_5Cl	cis-1-Chloro-1-propene	-	L	Band freq, Anal	Harwell	JACS	77 (1955) 1682
C_3H_5Cl	trans-1-Chloro-1-propene	-	L	Band freq, Anal	Harwell	JACS	77 (1955) 1682
C_3H_5Cl	2-Chloro-1-propene	-	-	Freq, Assign	West	TFS	27 (1931) 145
		-	Sol	Group freq, Spec	Potts	SA	15 (1959) 679
C_3H_5Cl	3-Chloro-1-propene	-	-	Freq, Assign	West	TFS	27 (1931) 145
		3-20μ	L	Spec, Assign	Thompson	TFS	42 (1946) 432
		-	-	Bond freq	Sheppard	TFS	46 (1950) 429

		-	-	Moment of inertia	Torkington	JCP	18	(1950)	407
		-	L	Group freq	Jacobs	JACS	75	(1953)	1314
		2-15μ	L,Sol	Group freq	Kitson	AC	25	(1953)	1470
		10-15μ	L	Spec, Ref index	Patterson	AC	26	(1954)	823
		-	Sol	Group freq, Spec	Potts	SA	15	(1959)	679
C_3H_5Cl	Cyclopropyl chloride	2-16μ	-	Spec, Ext coeff, Band freq	Roberts	JACS	73	(1951)	5030
		2-16μ	L,Sol	Spec, Anal	Slabey	JACS	74	(1952)	4928
		-	L,Sol	Band freq	Slabey	JACS	76	(1954)	3604
		-	-	Micro spec, Mol const	Friend	JCP	29	(1958)	577
$C_3H_5Cl^{35}$	Chlorocyclopropane (isotopic)	-	G	Microwave	Friend	JCP	23	(1955)	1557
$C_3H_5Cl^{37}$	Chlorocyclopropane (isotopic)	-	G	Microwave	Friend	JCP	23	(1955)	1557
C_3H_5ClO	Chloroacetone	500-3200	G,L,S, Sol	Spec, IR, Rot isomerism	Mizushima	JCP	21	(1953)	815
		-	G,L,Sol	Struct, Dipole effect	Bellamy	JCS	-	(1957)	4294
C_3H_5ClO	Epichlorohydrin	800-1500	-	Spec	Barnes	IEC	15	(1943)	659
		2600-2680	Sol	H bond	Searles	JACS	73	(1951)	3704
		2-15μ	L,Sol	Spec, Group freq	Patterson	AC	26	(1954)	823
		-	-	I	Noland	JACS	77	(1955)	3395
		1-3.1μ	Sol	Terminal epoxides	Goddu	AC	30	(1958)	2013
C_3H_5ClO	2-Chloro-2-propen-1-ol	-	-	I, Struct	Noland	JACS	77	(1955)	3395
C_3H_5ClO	3-Chloro-2-propen-1-ol	-	-	Ident	Noland	JACS	77	(1955)	3395
$C_3H_5ClO_2$	Ethyl chloroformate	1050-1800	-	Spec	Barnes	IEC	15	(1943)	659
		-	Sol	Struct, Freq, Dissociation	Hales	JCS	-	(1957)	618
		-	Sol	Freq, I	Thompson	SA	13	(1958)	236
		-	Sol	I	Gutjahr	SA	16	(1960)	1209
		800-1500	Sol	Band charact, Assign	Katritzky	SA	16	(1960)	954
		-	-	Band charact, Assign	Katritzky	SA	16	(1960)	964
$C_3H_5ClO_2$	α-Chloropropionic acid	700-4000	S,L,Sol	Table, Bond freq	Flett	JCS	-	(1951)	962
$C_3H_5ClO_2$	β-Chloropropionic acid	700-4000	S,L,Sol	Table, Bond freq	Flett	JCS	-	(1951)	962

$C_3H_5ClO_2S$	1-Propene-1-sulphonyl chloride	-	L	Freq, Assign	Freeman	AJC	10 (1957) 227
$C_3H_5ClO_2S$	2-Propene-1-sulphonyl chloride	-	L	Freq	Freeman	AJC	10 (1957) 227
$C_3H_5ClO_3$	Ethyl chloro carbonate	-	S	Band freq	Ory	SA	16 (1960) 1488
$C_3H_5Cl_3$	1,2,3-Trichloropropane	500-1500	L	Spec	Thompson	PRS	184 (1945) 21
$C_3H_5Cl_3NB$	Ethylcyanide boron trichloride complex	-	Sol	Freq	Gerrard	JCS	- (1960) 2182
$C_3H_5Cl_3N_2$	N-Methyltrichloro-acetamidine	1000-3500	L	Assign, Struct, H bond	Grivas	CJC	37 (1959) 795
$C_3H_5Cl_3N_2.HCl$	N-Methyltrichloro-acetamidiline hydro-chloride	1350-4000	S	Struct, Abs	Grivas	CJC	37 (1959) 1260
$C_3H_5Cl_3Si$	Allyltrichlorosilane	8-15 μ	Sol	Spec	Scott	JACS	73 (1951) 2599
C_3H_5F	2-Fluoropropene	-	-	Bond freq, Ident	Austin	JACS	75 (1953) 4834
		-	G	Spec, Dipole moment	Pierce	JMS	3 (1959) 536
C_3H_5F	trans-1-Fluoropropene	8-37K Mc/sec	-	Micro spec, Mol const, Struct	Siegal	JCP	27 (1957) 989
$C_3H_5F_3N_2.HCl$	N-Methyltrifluoro-acetamidiline hydro-chloride	1350-4000	S	Struct, Abs	Grivas	CJC	37 (1959) 1260
$C_3H_5F_3O$	1,2,2-Trifluoro-2-methoxy-ethane	2-15 μ	G	Spec	Park	JACS	73 (1951) 711
$C_3H_5F_3O$	1,1,1-Trifluoro-2-propanol	-	Sol	H bond, Bond freq	Haszeldine	JCS	- (1953) 1757
$C_3H_5F_3O$	3,3,3-Trifluoropropanol	-	Sol	H bond, Bond freq	Haszeldine	JCS	- (1953) 1757
$C_3H_5F_3S_2$	Ethyl trifluoromethyl disulphide	400-4000	G	Freq, Assign	Nabi	JCS	- (1959) 3439
C_3H_5I	3-Iodo-1-propene	3-20 μ	L	Spec, Assign	Thompson	TFS	42 (1946) 432

		2-15μ	L, Sol	Group freq	Kitson	AC	25	(1953)	1470
		-	Sol	Group freq, Spec	Potts	SA	15	(1959)	679
C_3H_5N	Ethyl cyanide	1.0-6.5μ	L	Spec	Gordy	JCP	4	(1936)	85
		-	-	Band discussion	Badger	JCP	5	(1937)	178
		4-14μ	Sol	Spec, Bond freq	Anderson	JCS	-	(1947)	445
		-	L	Bond freq	Kitson	AC	24	(1952)	334
		-	L	Ident	Janz	JACS	75	(1953)	5389
		400-3500	G,L	Spec, NCA	Duncan	JCP	23	(1955)	434
		-	Sol	I, Bond freq	Skinner	JCS	-	(1955)	487
		-	-	I	Thompson	TFS	52	(1956)	1451
		17-18K Mc/sec	-	Struct parameters, Mol const	Lerner	JCP	26	(1957)A	678
		2200-2300	G,Sol	Freq, Struct	Jesson	SA	13	(1958)	217
		-	Sol	Solvent effect	Bayliss	SA	15	(1959)	12
		-	G	Micro spec	Laurie	JCP	31	(1959)	1500
		-	Sol	Freq	Gerrard	JCS	-	(1960)	2182
		400-3000	-	Spec, Freq	Rao	ZAUA	304	(1960)	351
C_3H_5N	Ethyl isocyanide	1-6.5μ	L	Spec	Gordy	JCP	4	(1936)A	85
C_3H_5NO	Acrylamide	-	-	Spec	Walton	JACS	79	(1957)	3985
		-	Sol	Group freq, Spec	Potts	SA	15	(1959)	679
C_3H_5NO	2-Hydroxypropane nitrile	3μ	Sol	H bond, Bond freq	Flett	SA	10	(1958)	21
		2200-2300	Sol	Bond freq, Struct	Jesson	SA	13	(1958)	217
C_3H_5NO	3-hydroxypropane nitrile	8800-10000	L	H bond	Thompson	JACS	61	(1939)	1396
		-	-	Bond freq	Kitson	AC	24	(1952)	334
		8-11μ	Sol	Spec, Ident	Dupre	AC	27	(1955)	1878
		3μ	Sol	H bond, Bond freq	Flett	SA	10	(1958)	21
		2200-2300	Sol	Bond freq, Struct	Jesson	SA	13	(1958)	217
C_3H_5NOS	2-Thiooxazolidone	2-12μ	Sol	Spec	Ettlinger	JACS	72	(1950)	4699
$C_3H_5NO_2$	Allyl nitrite	2-25μ	G	Rot isomerism	Tarte	JCP	20	(1952)	1570
$C_3H_5NO_2$	2-Nitropropene	-	-	Conjugated nitro band	Emmons	JACS	75	(1953)	1993
$C_3H_5NO_2$	Oxazolidone	1600-1800	S	Freq	Hall	JACS	80	(1958)	6428
C_3H_5NS	Ethyl thiocyanate	1-6.5μ	L	Spec	Gordy	JCP	4	(1936)	85

		600-2200	-	Freq	Lieber	SA	13	(1959)	296
C_3H_5NS	Ethyl isothiocyanate	1-6.5μ	L	Spec	Gordy	JCP	4	(1936)	85
		2200-2300	Sol	Spec, Freq	Caldow	SA	13	(1958)	212
		600-2200	-	Freq	Lieber	SA	13	(1959)	296
C_3H_5NS	2-Thiazoline	-	-	Spec, Freq	Roggers	CPR	249	(1959)	2529
$C_3H_5NS_2$	2-Mercaptothiazoline	-	-	Group freq, Struct	Clapp	JACS	75	(1953)	1490
		2800-3500	S,Sol	Spec, Group freq	Flett	JCS	-	(1953)	347
$C_3H_5N_3O$	β-Azidopropionaldehyde	2-16μ	Sol	Spec, Band freq	Boyer	JACS	73	(1951)	5248
$C_3H_5N_3O$	5-Methyl-1,2,4-Δ^4-triazolone	2-7μ	S	Spec, Struct	Mautner	JACS	77	(1955)	4076
$C_3H_5N_3O$	5-Methyl-1,2,4-Δ^5-triazolone	2-7μ	S	Spec, Struct	Mautner	JACS	77	(1955)	4076
$C_3H_5N_3O$	Triazoacetone	2-16μ	Sol	Spec, Band freq	Boyer	JACS	73	(1951)	5248
$C_3H_5N_3O_2$	β-Azidopropionic acid	2-16μ	Sol	Spec	Boyer	JACS	73	(1951)	5248
$C_3H_5N_3O_9$	Nitroglycerine	1200-1300	Sol	Spec, Anal	Pinchas	AC	23	(1951)	201
		2-15μ	Sol	Spec, Anal	Pristera	AC	25	(1953)	844
$C_3H_5N_5O_2$	3-Methyl-5-nitroamino 1,2,4-triazole	2-15μ	S	Spec, Freq	Lieber	AC	23	(1951)	1594
$C_3H_5N_5O_4$	1-Nitro-2-nitrimino-imidazolidine	1-15μ	S	Group freq	Kumler	JACS	76	(1954)	814
$C_3H_5N_6O$	Ammeline	2-16μ	S	Spec, Struct	Padgett	JACS	80	(1958)	803
$C_3H_5O_3$	Lactate ion	-	-	Spec	Goulden	CIL	-	(1960)	721
C_3H_6	Cyclopropane	-	-	Quant mech	Wilson	JCP	3	(1935)	276
		-	L,G	FC, IR	King	JACS	58	(1936)	1580
		-	-	FC, IR	Bonner	JCP	5	(1937)	293
		1-15.5μ	G	Spec	Bonner	JCP	5	(1937)	704
		-	-	Spec, Struct anal	Eyster	JCP	6	(1938)	576
		1.5-25μ	G	Spec, Assign	Linnett	JCP	6	(1938)	692
		-	-	Thermo	Kistiakowsky	JCP	8	(1940)	610
		3.3-9.6μ	G	High resolution	Smith	PR	59	(1941)	924A
		-	-	Act energy, Bond freq	Fugassi	JPC	46	(1942)	630

		-	-	Freq	Kellner	TFS	41	(1945)	217
		-	-	FC, Dioxane study	Ramsay	PRS	190	(1947)	562
		-	-	Assign	Derfer	JACS	71	(1949)	2482
		-	-	Struct	Walsh	TFS	45	(1949)	179
		3-13μ	G	Spec	Lacher	JACS	72	(1950)	331
		.6-2.3μ	G	Assign	Sinha	JCP	18	(1950)	217
		700-6000	-	Mol anal	Neill	AC	23	(1951)	1047A
		-	-	Vib	Guthrie	JACS	74	(1952)	2795
		-	G	Band freq	Wiberley	AC	24	(1952)	623
		-	G	Anal	Kharasch	JOC	18	(1953)	575
		-	-	Band freq, Table, I	O'Conner	AC	26	(1954)	1726
		350-3700	G,L	Spec, Assign	Baker	JCP	23	(1955)	1636
		3-5μ	G	Struct	Lord	AC	27	(1955)	327
		-	G	Quant mech	Lindquist	JCP	24	(1956)	725
		2-15μ	G	Spec	Pierson	AC	28	(1956)	1218
		-	-	Spec	Horak	CCCC	25	(1960)	1679
C_3H_6	Propene	-	-	Thermo	Kassel	JCP	4	(1936)	435
		1-15.5μ	G	Freq, FC	Bonner	PR	52	(1937)	249
		-	-	Thermo	Crawford	JACS	61	(1939)	2980
		-	-	Thermo	Crawford	JCP	8	(1940)	273
		2.6-3.8μ	Sol	Spec, Assign	Fox	PRS	175	(1940)	208
		-	-	Thermo	Kistiakowsky	JCP	8	(1940)	610
		-	-	Hindered rot	Lanseth	JCP	8	(1940)	415
		-	G	Thermo, Review	Pitzer	CR	27	(1940)	39
		-	-	Thermo	Telfair	JCP	9	(1941)	5712
		3.25μ	G	Spec, Assign	Wilson	JCP	9	(1941)	319
		800-1700	G	Spec, Assign	Avery	JCP	10	(1942)	10
		-	-	Internal rot	Aston	JCP	12	(1944)	336
		800-1100	-	Spec, Assign	Thompson	PRS	184	(1945)	3
		-	G	Thermo	Kilpatrick	JRNB	37	(1946)	163
		-	-	Anal	Lee	IEC	18	(1946)	659
		-	-	Spec, Press broadening	Coggeshall	JCP	15	(1947)	65
		-	G	NCA	Kilpatrick	JRNB	38	(1947)	191
		2-15μ	G	Spec, Assign	Rasmussen	JCP	15	(1947)	120
		-	-	Pressure broadening	Seyfried	IEC	19	(1947)	298
		-	-	Anal	Partington	JCS	-	(1948)	2226
		-	G	Anal	Milson	AC	21	(1949)	547
		700-1500	G	Assign	Sheppard	PRS	196	(1949)	195
		-	-	Anal	Starr	AC	21	(1949)	572
		-	-	Quant mech, Assign	Torkington	JCP	17	(1949)	1279
		2-15μ	G	Spec	Lacher	JACS	72	(1950)	331

		-	G	Anal	O'Neal	AC	22	(1950)	991
		-	-	FC	Torkington	PRS	206	(1951)	17
		-	G	Ident	Blodes	JACS	74	(1952)	6219
		-	-	Anal	Knox	JCS	-	(1952)	1477
		-	G	Emission, Glow discharge	Talley	JOSA	42	(1952)	982
		-	G	Anal	Kharasch	JOC	18	(1953)	575
		400-6200	G	Spec, Assign	Lord	JOSA	43	(1953)	1079
		192-161	G	Freq	O'Loane	JCP	21	(1953)	669
		-	-	Rot barrier theory	Luft	JCP	22	(1954)	1814
		10-15 μ	G	Spec	Patterson	AC	26	(1954)	823
		-	-	Bond freq	Tarrant	JACS	76	(1954)	5423
		-	-	Freq	Brown	TFS	51	(1955)	1611
		-	-	Bond freq	Pinchas	AC	27	(1955)	2
		-	G	Quant mech	Lindquist	JCP	24	(1956)	725
		2-15 μ	G	Spec	Pierson	AC	28	(1956)	1218
		3.1-3.8 μ	-	Spec, Struct	Pliskin	JCP	24	(1956)	482
		17-36K Mc/sec	-	Micro spec, Struct	Lide	JCP	27	(1957)	868
		-	-	Group freq	Bellamy	JCS	-	(1958)	2463
		1600-3400 Mc/sec	G	Spec, Struct	Hersch	JCP	28	(1958)	728
		-	Sol	Freq, Spec	Potts	SA	15	(1959)	679
		700-3500	L	Spec, Freq	Comeford	JMS	5	(1960)	474
		-	-	Band assign	Harrah	JCP	33	(1960)	298
C_3H_6DBr	2-Bromopropane-2-d_1	-	Sol	Table, Rate study	Shiner	JACS	74	(1952)	5285
C_3H_6DCl	2-Chloropropane-2-d_1	800-4000	L	Mass spec	Condon	JCP	19	(1951)	1010
C_3H_6DNO	N-Methylacetamide-d_1	400-3600	G,L,Sol	Spec, Assign	Miyazawa	JCP	24	(1956)	408
$C_3H_6DNO_2$	Alanine-d_1	750-1750	-	Freq	Fukushima	SA	15	(1959)	236
$C_3H_6D_2$	2,2-Propane-d_2	2-15 μ	G	Spec, Assign	McMurry	JCP	18	(1950)	1515
		2-15 μ	G	Spec, Assign	McMurry	JCP	19	(1951)	1014
$C_3H_6D_2N_2O$	N,N'-Dimethylurea-d_2	-	Sol	Vib	Becher	NWSS	43	(1956)	467
C_3H_6BrCl	3-Bromo-1-chloropropane	450-1500	S,L	Spec, Assign, Isomerism	Brown	PRS	231	(1955)	555
			L,S,Sol	Spec, Struct	Fukushima	NKZ	80	(1959)	1218
$C_3H_6Br_2$	1,2-Dibromopropane	2.5-15 μ	-	Anal, Spec	Wright	IEC	13	(1941)	1
		7-13.5 μ	Sol	Spec, Ident	Eckstein	JCP	22	(1954)	28
$C_3H_6Br_2$	1,3-Dibromopropane	2.5-15 μ	-	Anal, Spec	Wright	IEC	13	(1941)	1

		14.5-19μ	L	Spec	Mortimer	JACS	69	(1947)	822
		2-15μ	L	Spec, Solvent	Pristera	APS	6	(1952)	29
		450-1500	L,S	Spec, Assign, Isomerism	Brown	PRS	A231	(1955)	555
		-	G,L,Sol	Spec, Assign, Struct	Fukushima	NKZ	80	(1959)	1221
$C_3H_6Br_2$	2,2-Dibromopropane	-	-	Assign, NCA	Tobin	JACS	75	(1953)	1788
$C_3H_6Br_2O$	1,3-Dibromopropanol	3μ	Sol	H bond freq	Flett	SA	10	(1958)	21
$C_3H_6Br_2O$	2,3-Dibromopropanol	-	-	Ident	Edwards	JCS	-	(1954)	761
		3μ	Sol	H bond	Flett	SA	10	(1958)	21
C_3H_6ClNO	2-Chloro-2-nitrosopropane	1-15μ	G	Freq	Luttke	JPR	15	(1954)	633
C_3H_6ClNO	Dimethylaminocarbonyl chloride	-	Sol	Band freq	Baker	JACS	82	(1960)	1923
C_3H_6ClNO	N-Methylchloroacetamide	2-14μ	G,L,S	Struct	Mizushima	JACS	78	(1956)	2038
$C_3H_6ClNO_2$	1-Chloro-1-nitropropane	-	L	Band freq, I	Haszeldine	JCS	-	(1953)	2525
$C_3H_6ClNO_2$	2-Chloro-2-nitropropane	-	L	Band freq, I	Haszeldine	JCS	-	(1953)	2525
$C_3H_6Cl_2$	1,1-Dichloropropane	1050-1800	-	Spec	Barnes	IEC	15	(1943)	659
		-	L,S,G	Struct	Fukushima	NKZ	80	(1959)	828
$C_3H_6Cl_2$	1,2-Dichloropropane	2.5-15μ	L	Anal	Wright	IEC	13	(1941)	1
		1050-1750	-	Spec	Barnes	IEC	15	(1943)	659
		500-1500	L	Spec	Thompson	PRS	184	(1945)	21
		8-14.5μ	Sol	Band freq	Urone	AC	24	(1952)	626
		-	-	Isomerism	Mayo	JACS	76	(1954)	5392
		-	-	Freq	Nakamura	JCP	26	(1957)	970
$C_3H_6Cl_2$	1,3-Dichloropropane	500-1500	L	Spec	Thompson	PRS	184	(1945)	21
		-	-	Band freq, Anal	Mayo	JACS	76	(1954)	5392
		450-1500	L,S	Spec, Assign, Isomerism	Brown	PRS	231	(1955)	555
$C_3H_6Cl_2$	2,2-Dichloropropane	-	-	Assign, NCA	Tobin	JACS	75	(1953)	1788
		1.22-30μ	L,Sol	Viscosity, Freq	Holland	JACS	78	(1956)	20
$C_3H_6Cl_2O$	1,3-Dichloro-2-propanol	-	-	Freq	Zumwalt	JCP	7	(1939)	87
		10200-10700	G	Freq	Zumwalt	JACS	62	(1940)	305

$C_3H_6Cl_2O$	2,3-Dichloropropanol	3μ	Sol	H bond	Flett	SA	10 (1958)	21
$C_3H_6Cl_2Si$	Allyldichlorosilane	2050-2250	Sol	Struct, Freq	Smith	SA	15 (1959)	412
$C_3H_6F_2$	2,2-Difluoropropane	-	-	Ident	Austin	JACS	75 (1953)	4834
$C_3H_6F_3O_2PS$	Ethyltrifluoromethyl-phosphonothioic acid	140-1500	L	Assign	McIvor	CJC	37 (1959)	869
$C_3H_6I_2$	1,3-Diiodopropane	450-1500	L,S	Spec, Assign, Isomerism	Brown	PRS	231 (1955)	555
$C_3H_6I_2$	2,2-Diiodopropane	-	-	Assign, NCA	Tobin	JACS	75 (1953)	1788
$C_3H_6I_2O$	Acetone-iodine	-	Sol	Freq	Glusker	JCS	- (1955)	471
$C_3H_6I_2O_2$	Methyl acetate iodine	1200-4000	Sol	Freq, I	Yamada	JACS	82 (1960)	1543
C_3H_6N	Dimethylnitrilium ion	400-4000	S	Spec, Freq assign, FC	Turrel	JCP	30 (1959)	895
$C_3H_6N_2$	Dimethyl cyanamide	1050-1800	-	Spec	Barnes	IEC	15 (1943)	659
		2200-2300	G,Sol	Freq	Jesson	SA	13 (1958)	217
$C_3H_6N_2O$	Imidazolidone	1600-1800	S	Freq	Hall	JACS	80 (1958)	6428
$C_3H_6N_2O_2$	D-4-Amino-3-isoazolidone	-	-	Group freq, H bond	Kwhl	JACS	77 (1955)	2344
		-	-	Ident	Stommer	JACS	77 (1955)	2346
$C_3H_6N_2O_2$	Cycloserine	3-14μ	S	Spec, Group freq	Hidy	JACS	77 (1955)	2345
$C_3H_6N_2O_4$	1,1-Dinitropropane	-	-	Dissociation const, Spec	Novikov	IANS	- (1959)	1855
$C_3H_6N_2O_4$	2,2-Dinitropropane	-	-	Ext coeff	Grabiel	JACS	77 (1955)	1293
		1.22-30μ	L,S,Sol	Freq	Holland	JACS	78 (1956)	20
$C_3H_6N_2S$	Ethylene thiocarbamide	2-15μ	S	Spec, Assign	Lane	JCP	22 (1954)	1855
$C_3H_6N_3O_{10}P$	Carbonyl phosphate	2-9μ	Sol	Spec, Freq	Jencks	ABB	88 (1960)	193
$C_3H_6N_4O_2$	2-Nitriminoimidazolidine	1-15μ	S	Group freq	Kumler	JACS	76 (1954)	814
$C_3H_6N_4S$	5-Ethylamino-1,2,3,4-thiatrizole	700-1700	S	Spec, Assign, Taut, Struct	Lieber	CJC	36 (1958)	801
$C_3H_6N_6$	Melamine	-	-	FC, Bond study	Anno	BCSJ	30 (1957)	638

		2-15μ	-	Spec	Finkel'shtein	OS	5	(1958)	264
		2-16μ	S	Spec, Struct	Padgett	JACS	80	(1958)	803
		450-5000	S	Struct, Freq, Assign	Jones	TFS	55	(1959)	203
$C_3H_6N_6O_3$	Cyclotrimethylene-trinitrosamine	650-3500	S	Table	Fowler	JPC	58	(1954)	382
C_3H_6O	Acetone	.8-2.0μ	L	Rotation	Ingersoll	JOSA	6	(1922)	663
		0-2.5μ	L	Spec	Ellis	PR	23	(1924)	48
		.59-2.8μ	L	IR	Ellis	PR	32	(1928)	906
		.7-2.5μ	Freq	Freq	Ellis	JACS	51	(1929)	1384
		-	-	Calculated freq	Whitelaw	PR	34	(1929)	376
		-	-	Vib in excited states	Duncan	JCP	3	(1935)	384
		52-152μ	L,Sol	Dispersion	Cartwright	PRS	154	(1936)	138
		2.5-8.5μ	L	H bond, Solvent effect	Gordy	PR	50	(1936)	1151
		2.7-6.3μ	L,Sol	Spec	Williams	JCP	4	(1936)	154
		9000-11000	Sol	Spec, H bond	Badger	JCP	5	(1937)	839
		-	-	Ext coeff	Errera	TFS	33	(1937)	120
		2.5-6μ	L	Spec, H bond	Gordy	JACS	59	(1937)	464
		2-15μ	L	Spec, Solvent chart	Errera	TFS	34	(1938)	728
		-	-	H bond	Freymann	JCP	6	(1938)	497
		5.4-6.1μ	L,Sol	Spec, H bond	Gordy	JACS	60	(1938)	605
		-	-	Thermo	Schumann	JCP	6	(1938)	485
		4.75μ	Sol	Absorption	Barr	JCP	7	(1939)	8
		-	-	Solvent effect	Gordy	JCP	7	(1939)	93
		-	-	Solvent effect	Gordy	JCP	7	(1939)	163
		-	-	H bond	Errera	JCP	8	(1940)	63
		5.5-6.5μ	L	Spec, H bond	Gordy	JCP	8	(1940)	516
		3-20μ	G	Spec	Price	JCP	9	(1941)	725
		1050-1800	-	Spec, Absorption freq	Barnes	IEC	15	(1943)	659
		-	-	Rot	Aston	JCP	12	(1944)	336
		-	-	FC	Linnett	TFS	41	(1945)	223
		500-1750	L	Assign	Thompson	JCS	-	(1945)	640
		3-20μ	L	Spec	Torkington	TFS	41	(1945)	184
		-	-	Pot barrier	French	JCP	14	(1946)	389
		-	-	FC	Walsh	TFS	43	(1947)	158
		2-14.5μ	L	Instrument performance	Wright	JOSA	37	(1947)	211
		1700	Sol	Bond freq, Chem prop	Flett	TFS	44	(1948)	767
		-	G	Freq	Hartwell	JCS	-	(1948)	1436
		-	G	Anal	Badin	JACS	72	(1950)	1550
		1-8μ	Sol	Spec, Association	Coggeshall	AC	22	(1950)	381
		-	-	Reaction study	Raal	JCS	-	(1950)	1596
		1800-1650	Sol	Ext coeff	Cross	TFS	47	(1951)	354

1200-2900	L	I	Francis	JCP	19	(1951)	942
5-11μ	L	Spec	Morton	JACS	73	(1951)	3300
2800-3000	Sol	Bond freq, Spec	Pozefsky	AC	23	(1951)	1611
15-25μ	L	Solvent	Marrison	JSI	29	(1952)	233
2-15μ	L	Spec, Solvent table	Pristera	APS	6	(1952)	29
14-4μ	L	Solvent	Smith	AC	24	(1952)	497
2-16μ	L	Spec, Solvent	Anderson	JOSA	43	(1953)	221
-	-	Ident	Baker	AC	25	(1953)	1457
1747-1709	G,Sol	Bond freq, I	Barrow	JCP	21	(1953)	2008
-	Sol	Band freq, H bond	Searles	JACS	75	(1953)	71
1600-1800	Sol	Freq	Fuson	JACS	76	(1954)	2526
-	L	Spec	Haszeldine	JCS	-	(1954)	4145
-	Sol	Freq & I shift	Hirota	BCSJ	27	(1954)	295
-	-	Rot barrier	Luft	JCP	22	(1954)	1814
-	Sol	Bond shift	Bayliss	AJC	8	(1955)	26
-	-	Anal	Guenther	JACS	77	(1955)	2191
2-15μ	-	Spec, Solvent	Wright	APS	9	(1955)	105
-	G	Reaction study, Spec	New	JPC	60	(1956)	320
2-15μ	G	Spec	Pierson	AC	28	(1956)	1218
2.5-11μ	Sol	Spec, Anal	Potts	AC	28	(1956)	1255
-	G	Freq	Bellamy	JCS	-	(1957)	4294
2-15μ	G	Spec, Quant anal	Friedel	AC	29	(1957)	1362
-	-	Dielect const, Dipole	Krishna	TFS	53	(1957)	767
1700	Sol	Freq, I	Thompson	SA	9	(1957)	208
1760-1560	S	Solvent dependence of freq	Archibald	SA	12	(1958)	34
2800-3600	L,G	Spec	Cromwell	JACS	80	(1958)	4573
400-4000	L	Spec	Pullin	TFS	54	(1958)	11
-	G,Sol	Solvent effect	Thompson	SA	13	(1958)	236
-	Sol	Freq, I	Thompson	SA	13	(1958)	254
-	G	Microwave absorption	Weatherly	DA	18	(1958)	1469
1650-1850	Sol,G,L	Solvent effect	Bellamy	TFS	55	(1959)	14
-	Sol	Assign, Shift	Flaig	A	626	(1959)	215
-	Sol	Freq	Horak	TEL	3	(1959)	19
-	Sol	Solvent effect	Ito	JCP	32	(1959)	1694
-	Sol	I, Freq	Mirone	ANCR	49	(1959)	52
18-50μ	G	Spec	Moller	CPR	249	(1959)	2534
-	-	Freq	Rao	JPC	63	(1959)	1311
-	Sol	Band freq	Baker	JACS	82	(1960)	1923
-	Sol	Freq	Brook	JACS	82	(1960)	5102
-	-	Torsional freq	Moller	CPR	251	(1960)	686
-	Sol	Solvent effect	Norrish	N	187	(1960)	142
-	Sol,L,G	Solvent effect	Pullin	SA	16	(1960)	12

C_3H_6O	Allyl alcohol	-	G	Spec	Badger	JCP	4	(1936)	711
		1050-1800	-	Spec	Barnes	IEC	15	(1943)	659
		3-20μ	L,Sol	Spec, Assign	Thompson	TFS	42	(1946)	432
		2800-3100	Sol	Spec, Bond freq	Pozefsky	AC	23	(1951)	1611
		665-500	L	Bond freq	Zeiss	JACS	75	(1953)	897
		-	G	Bending freq	Tarte	JCP	26	(1957)	962
		3μ	Sol	H bond	Flett	SA	10	(1958)	21
		3570-3700	Sol	Freq, I	Flynn	AJC	12	(1959)	575
		3μ	Sol	Freq	Oki	BCSJ	32	(1959)	567
		-	Sol	Group freq, Spec	Potts	SA	15	(1959)	679
C_3H_6O	Cyclopropanol	665-5000	L	Bond freq	Ziess	JACS	75	(1953)	897
C_3H_6O	Dimethyl ether	-	-	Freq, Assign	Mirone	ANCR	50	(1960)	1095
C_3H_6O	Methyl vinyl ether	600-4000	G,Sol	Spec, Freq	Mikawa	BCSJ	29	(1956)	110
		-	Sol	Group freq, Spec	Potts	SA	15	(1959)	679
C_3H_6O	Propene oxide	1250	-	Epoxy struct	Field	JCP	18	(1950)	1298
		2590-2690	Sol	H bond, Bond freq	Searles	JACS	73	(1951)	3704
		2-15μ	L	Spec, Struct anal	Shreve	AC	23	(1951)	277
		10-15μ	Sol	Spec, Group freq	Patterson	AC	26	(1954)	823
		2800-3100	Sol	Stretching band, Struct	Henbest	JCS	-	(1957)	1459
		-	G	Spec, Struct	Swalen	JCP	27	(1957)	100
		-	-	Transitions	Herschbach	JCP	29	(1958)	761
C_3H_6O	Propionaldehyde	.7-2.5μ	L	Bond study	Ellis	JACS	51	(1929)	1384
		1.1-2.1μ	L	Spec, Assign	Kellner	PRS	157	(1936)	100
		1748-1765	G	Bond freq	Hartwell	JCS	-	(1948)	1436
		-	Sol	Bond vib, I	Richards	TFS	45	(1949)	874
		-	G	Anal	Badin	JACS	72	(1950)	1550
		-	-	Reaction study	Raal	JCS	-	(1950)	1396
		1800-1650	Sol	Ext coeff	Cross	TFS	47	(1951)	354
		2700-3000	Sol	Spec, Stretch freq	Pozefsky	AC	23	(1951)	1611
		1730-1738	Sol	I, Bond freq	Barrow	JCP	21	(1953)	2008
		-	Sol	I, Solvent effect	Hirota	BCSJ	27	(1954)	295
		-	Sol	Group freq, Ext coeff	Pinchas	AC	27	(1955)	2
		170-470	-	Absorption bands	Moller	CPR	250	(1960)	3977
C_3H_6O	Trimethylene oxide	2569-2689	Sol	H bond, Band freq	Searles	JACS	73	(1951)	3704
		2-15μ	L,Sol	Spec, Assign, Group freq	Barrow	JACS	75	(1953)	1175
		-	G	Microwave	Fernand	JCP	23	(1955)	758

		-	G	Micro spec, Mol const	Chan	JCP	33	(1960)	1643
		-	G,L	Freq, Spec	Danti	JCP	33	(1960)	294
C_3H_6OS	Methyl thiolacetate	-	Sol	Band freq	Baker	JACS	82	(1960)	1923
C_3H_6OS	Methyl vinyl sulfoxide	6.8-8.5 μ	-	Band freq	Price	JACS	74	(1952)	2073
		6.2-14.8 μ	L	Band freq, I	Price	JACS	75	(1953)	4750
C_3H_6OS	Trimethylene sulfoxide	-	Sol	H bond, Band shift	Tomres	JACS	81	(1959)	2100
$C_3H_6OS_2$	Methylthio methyl-thiolformate	-	Sol	Band freq	Baker	JACS	82	(1960)	1923
$C_3H_6O_2$	1,3-Dioxolan	-	-	Ident	Pinder	JCS	-	(1954)	113
		400-3000	G,L,Sol	Spec, Assign	Barker	JCS	-	(1959)	802
$C_3H_6O_2$	Ethyl formate	2.5-6.0 μ	L	Spec, H bond	Gordy	JACS	59	(1937)	464
		2.5-6.0 μ	L	Spec, H bond	Williams	JACS	59	(1937)	817
		500-1750	L	Assign	Thompson	JCS	-	(1945)	1640
		-	G	Bond freq	Hartwell	JCS	-	(1948)	1436
		2800-3150	Sol	Stretch freq, Spec	Pozefsky	AC	23	(1951)	1611
		-	-	Band freq, Isomerism	Karpovich	JCP	22	(1954)	1767
		-	Sol	Freq	Russell	JCS	-	(1955)	479
		-	-	Solvent	Matheson	AC	30	(1958)	63
		-	Sol	Freq, I	Thompson	SA	13	(1958)	236
		1.24-3.18 μ	G	Microwave absorption	Murty	JSIR	18B	(1959)	455
		-	Sol	Band freq	Baker	JACS	82	(1960)	1923
		-	Sol	I	Gutjahr	SA	16	(1960)	1209
		800-1500	Sol	Assign	Katritzky	SA	16	(1960)	954
		-	-	Assign	Katritzky	SA	16	(1960)	964
$C_3H_6O_2$	Glycidol	900-1750	S	Spec	Barnes	IEC	15	(1943)	659
		2-15 μ	L	Spec, Anal	Shreve	AC	23	(1951)	277
$C_3H_6O_2$	Methyl acetate	1-21 μ	L	Spec	Callow	JCS	-	(1916)	55
		1-2.5 μ	L	Spec	Smith	JACS	48	(1926)	1512
		2-8 μ	Sol	Spec, Assign	Bennett	JACS	49	(1927)	50
		.7-2.5 μ	L	Band study	Ellis	JACS	51	(1929)	1384
		-	-	Freq, Thermo	Lecomte	TFS	25	(1929)	864
		.8-2.5 μ	L	Spec	Sappenfield	PR	33	(1929)	37
		4-8 μ	-	No exchange reaction	Barr	PR	51	(1937)	685
		1050-1800	-	Absorption freq, Spec	Barnes	IEC	15	(1943)	659
		500-1750	L	Assign	Thompson	JCS	-	(1945)	640

		3-20 μ	L	Spec	Torkington	TFS	41	(1945)	184
		5.7 μ	-	Band width	Anderson	AC	20	(1948)	998
		-	G	Bond freq	Hartwell	JCS	-	(1948)	1436
		1200-2900	L	I	Francis	JCP	19	(1951)	942
		2800-3000	Sol	Stretch freq, Spec	Pozefsky	AC	23	(1951)	1611
		15-25 μ	L	Solvent	Marrison	JSI	29	(1952)	233
		-	G, Sol	Bond freq, I	Barrow	JCP	21	(1953)	2008
		6.93-11.82 μ	L	Band freq, I, Spec	Fowler	JOSA	43	(1953)	1054
		-	Sol	Bond freq, H bond	Searles	JACS	75	(1953)	71
		-	Sol	Freq, I, Solvent effect	Hirota	BCSJ	27	(1954)	295
		-	-	Band freq	Karpovich	JCP	22	(1954)	1767
		-	-	Rot barrier	Luft	JCP	22	(1954)	1814
		-	-	Ident	Blowquist	JACS	77	(1955)	78
		-	Sol	Freq	Russell	JCS	55	(1955)	479
		.9-3 μ	Sol	Spec	Holman	AC	28	(1956)	1533
		700-4000	Sol	Spec, Assign, Group freq	Nolin	CJC	34	(1956)	1382
		1500-5000	Sol	Group freq	Briggs	AC	29	(1957)	904
		-	-	Dipole	Krishna	TFS	53	(1957)	767
		-	G, Sol	Freq	Sullivan	JCS	-	(1957)	4144
		3-34 μ	Sol	Spec, Assign	Wilmshurst	JMS	1	(1957)	201
		3000	-	Assign	Josien	CPR	246	(1958)	1992
		1650-1850	L, G, Sol	Solvent effect	Bellamy	TFS	55	(1959)	14
		2900	G, Sol	Assign	Deschamps	BSCF	88	(1959)	88
		-	-	Freq	Lorenzelli	CPR	249	(1959)	669
		1.24-3.18 μ	G	Microwave absorption	Murthy	JSIR	18B	(1959)	455
		-	Sol	Band freq	Baker	JACS	82	(1960)	1923
		800-1500	Sol	Band freq, Assign	Katritzky	SA	16	(1960)	A 954
		-	-	Band freq, Assign	Katritzky	SA	16	(1960)	964
$C_3H_6O_2$	Propionic acid	3500-670	L, S	Spec	Corish	JCS	-	(1957)	1746
		3-6 μ	Sol	Mol const, I	Wenograd	JACS	79	(1957)	5844
		1500-3700	Sol	Solvent effect	Cole	JCS	-	(1959)	2005
$C_3H_6O_2S$	Methylthiol methoxy-formate	-	Sol	Band freq	Baker	JACS	82	(1960)	1923
$C_3H_6O_2S$	Methyl vinyl sulfone	1000-1500	Sol	Spec	Schreiber	AC	21	(1949)	1168
		6.15-14.6 μ	L	Band freq, I	Price	JACS	75	(1953)	4750
		-	Sol	Freq	Rogers	JACS	78	(1956)	1790
$C_3H_6O_3$	Dimethyl carbonate	1-12 μ	L	Bond freq, Assign	Bell	JACS	50	(1928)	2940
		500-1750	L	Assign	Thompson	JCS	-	(1945)	640
		-	G	Bond freq	Hartwell	JCS	-	(1948)	1436

		-	G,Sol	I, Bond freq	Barrow	JCP	21	(1953)	2008
		-	-	Bond freq	Hales	JCS	-	(1954)	3145
		-	Sol	Freq, I, Solvent effect	Hirota	BCSJ	27	(1954)	295
		-	Sol	I	Russell	JCS	-	(1955)	479
		1500-5000	Sol	Group freq	Briggs	AC	29	(1957)	904
		-	Sol	Struct, Dissociation	Hales	JCS	-	(1957)	618
		700-4000	S	Freq, Assign	Gatehouse	JCS	-	(1958)	3137
		-	Sol	Freq, I	Thompson	SA	13	(1958)	236
		-	-	Band freq, Assign	Katritzky	SA	16	(1960)	964
$C_3H_6O_3$	Glycol formate	3μ	Sol	Freq, H bond	Flett	SA	10	(1958)	21
$C_3H_6O_3$	α-Hydroxypropionic acid	700-4000	Sol	Table, Group freq	Flett	JCS	-	(1951)	962
		2-15μ	L	Spec	Barr	JACS	74	(1952)	4430
		2-15μ	-	Spec, H bond	Mucke	JPRC	9	(1959)	16
$C_3H_6O_3$	α-Methoxyacetic acid	-	Sol	Freq & dissociation const	Goulden	SA	6	(1954)	129
		1500-5000	Sol	Group freq	Briggs	AC	29	(1957)	904
		-	Sol	H bond	Oki	BCSJ	33	(1960)	119
$C_3H_6O_3$	α-Methoxy methyl formate	-	Sol	Band freq	Baker	JACS	82	(1960)	1923
		800-1500	Sol	Band freq, Assign	Katritzky	SA	16	(1960)	954
$C_3H_6O_3$	Propionyl hydroperoxide	5-15μ	Sol	Spec	Minkoff	PRS	224	(1954)	176
		2-15μ	G	Spec	Stephens	AC	29	(1957)	776
$C_3H_6O_3$	Propylene ozonide	2-15μ	G	Spec	Garvin	JPC	60	(1956)	807
$C_3H_6O_3$	1,3,5-Trioxacyclohexane	-	-	Act energy, Band freq	Fugassi	JPC	46	(1942)	630
		2.5-14μ	G,Sol	Spec, Assign	Ramsay	TFS	44	(1948)	289
		2700-3100	G	Spec	Decius	JCP	19	(1951)	806
$C_3H_6O_3S$	Vinyl methanesulfonate	2-15μ	L	Spec	Samer	JACS	77	(1955)	3793
C_3H_6S	Allyl mercaptan	-	-	Bond freq	Sheppard	TFS	46	(1950)	429
C_3H_6S	Methyl vinyl sulfide	1000-1500	Sol	Spec	Schreiber	AC	21	(1949)	1168
		5.85-14.8μ	L	I, Group freq	Price	JACS	75	(1953)	4750
C_3H_6S	Thiacyclobutane	670-1460	G,L	Table, I, Assign, Thermo	Scott	JACS	75	(1953)	2795
		2-25μ	L	Spec	Haines	JPC	58	(1954)	270
C_3H_7D	1-Propane-d_1	2-15μ	G	Spec, Assign	Friedman	JCP	17	(1949)	1012

		2-15μ	G	Spec, Assign	McMurry	JCP	17 (1949)	918
C_3H_7D	2-Propane-d_1	2-15μ	G	Spec, Assign	Friedman	JCP	17 (1949)	1012
		2-15μ	G	Spec, Assign	McMurry	JCP	17 (1949)	918
C_3H_7DO	1-Propanol-d_1	650-4000	G,L	Band freq, I	Quinan	AC	26 (1954)	1762
C_3H_7DO	2-Propanol-d_1	800-4000	L	Spec	Condon	JCP	19 (1951)	1010
		-	Sol	Rate study, Table	Shiner	JACS	74 (1952)	528
C_3H_7DO	n-Propanol-O-d_1	-	G	Bending freq	Tarte	JCP	26 (1957)	962
C_3H_7DO	sec-Propanol-O-d_1	-	G	Bending freq	Tarte	JCP	26 (1957)	962
C_3H_7Br	1-Bromopropane	0-2.5μ	L	Spec	Ellis	PR	23 (1924)	48
		1-13μ	L	Spec	Stair	JRNB	15 (1935)	295
		14-19μ	L	Spec	Mortimer	JACS	69 (1947)	822
		3-15μ	L,G	Spec, H bond	Lacher	JACS	72 (1950)	331
		720-750	L	Bond freq	Wiberly	AC	22 (1950)	841
		500-1500	L,Sol	Spec, Isomerism	Brown	TFS	50 (1954)	535
		450-1500	L,S	Spec, Assign, Isomerism	Brown	TFS	50 (1954)	1164
		400-3000	L,S	Spec, Freq, Isomerism	Komaki	BCSJ	28 (1955)	330
		-	L	Mole ratio	Yoshino	CJC	35 (1957)	339
C_3H_7Br	2-Bromopropane	2-6μ	L	Spec	Daniels	JACS	47 (1925)	2856
		14-20μ	L	Spec	Mortimer	JACS	69 (1947)	822
		3-14μ	G	Spec, H bond	Lacher	JACS	72 (1950)	331
		450-15000	L	Spec, Assign	Sheppard	TFS	46 (1950)	533
C_3H_7BrO	1-Bromo-2-propanol	-	L	Anal	Stewart	JACS	76 (1954)	1259
C_3H_7BrO	2-Bromo-1-propanol	-	L	Anal	Stewart	JACS	76 (1954)	1259
C_3H_7BrO	3-Bromo-1-propanol	-	G	Bond study	Zumwalt	JACS	62 (1940)	305
C_3H_7Cl	1-Chloropropane	-	L	Freq, Assign	West	TFS	27 (1931)	145
		-	-	Bond freq	Sheppard	TFS	46 (1950)	429
		-	G,L,S, Sol	Rot, Struct	Mizushima	JPC	56 (1952)	324
		450-1500	L,S	Spec, Assign, Isomerism	Brown	TFS	50 (1954)	1164
		-	-	Band freq	Mayo	JACS	76 (1954)	5392
		10-14.5μ	L	Spec	Patterson	AC	26 (1954)	823

		400-4000	G,L,S	Spec, Freq, Isomerism	Komaki	BCSJ	28 (1955)	330
		-	-	Bond freq	Nakamura	JCP	26 (1957)	970
C_3H_7Cl	2-Chloropropane	-	L	Freq, Assign	West	TFS	27 (1931)	145
		-	-	Bond freq	Sheppard	TFS	46 (1950)	429
		450-1500	L	Spec, Assign	Sheppard	TFS	46 (1950)	533
		800-4000	L	IR & mass spec	Condon	JCP	19 (1951)	1010
		-	-	Bond freq, Isomerism	Brown	TFS	50 (1954)	1164
		-	-	Comparison	Mayo	JACS	76 (1954)	5392
$C_3H_7ClFO_2PS$	β-Fluroethyl methyl-phosphonochloridothionate	740-1500	S	Assign	McIvor	CJC	37 (1959)	869
$C_3H_7ClN_4O_2$	N-β-Chloroethyl-N'-nitroguanidine	-	-	Ident	McKay	JACS	77 (1955)	1057
$C_3H_7ClN_4O_2$	1-Nitro-2-amino-2-imidazolium chloride	-	-	Ident, Band freq	Mckay	JACS	77 (1955)	1057
C_3H_7ClO	β-Chloroethyl methyl ether	-	L,S	Spec, Isomerism	Michiro	NKZ	80 (1959)	1084
C_3H_7ClO	1-Chloro-2-propanol	-	-	Absorption freq	Zumwalt	JCP	7 (1939)	87
		10100-10700	G	Bond study	Zumwalt	JACS	62 (1940)	305
		-	L	Spec, Anal	Stewart	JACS	76 (1954)	1259
C_3H_7ClO	2-Chloro-1-propanol	800-1200	L	Spec, Anal	Stewart	JACS	76 (1954)	1259
C_3H_7ClO	3-Chloro-1-propanol	-	-	Absorption freq	Zumwalt	JCP	7 (1939)	87
		10200-10700	G	Bond study	Zumwalt	JACS	62 (1940)	305
		3μ	Sol	Freq, H bond	Flett	SA	10 (1958)	21
C_3H_7ClOS	β-Chloroethyl methyl sulfoxide	6.8-8.5μ	-	Broad band	Price	JACS	74 (1952)	2073
$C_3H_7ClO_2S$	1-Methylethanesulphonyl chloride	-	-	Spec, Freq	Geiseler	ZE	64 (1960)	421
$C_3H_7ClO_2S$	Propanesulfonyl chloride	-	-	Spec, Assign	Geiseler	ZE	63 (1959)	1140
C_3H_7ClS	β-Chloroethyl methyl sulfide	-	L,S	Spec, Isomerism	Michiro	NKZ	80 (1959)	1084

$C_3H_7Cl_2OPS$	Isopropylphosphoro-dichloridothionate	600-900	L	Band assign	McIvor	CJC	37	(1959)	869
$C_3H_7Cl_2OPS$	n-Propylphosphoro-dichloridothionate	600-900	L	Band freq	McIvor	CJC	37	(1959)	869
$C_3H_7Cl_2PS$	Thiophosphoryl	-	-	Spec, Freq	Popov	ZOK	29	(1959)	1998
$C_3H_7Cl_3OSi$	Trichlorosilylethyl methyl ether	-	-	Inductive effect	Josien	CPR	249	(1959)	826
$C_3H_7Cl_3OSi$	Trichlorosilylmethyl ethyl ether	-	-	Inductive effect	Josien	CPR	249	(1959)	826
$C_3H_7Cl_3Si$	Propyltrichlorosilane	2-16μ	Sol	Spec, Freq	Smith	SA	16	(1960)	87
$C_3H_7F_3NOB$	Dimethylformamide-boron trifluoride	-	-	Freq	Muetterties	JACS	75	(1953)	490
C_3H_7I	1-Iodopropane	0-2.5μ	L	Spec	Ellis	PR	23	(1924)	48
		-	-	Band freq, Act energy	Fugassi	JPC	46	(1942)	630
		450-1500	-	Spec, Assign, Isomerism	Brown	TFS	50	(1954)	1164
C_3H_7I	2-Iodopropane	0-2.5μ	L	Spec	Ellis	PR	23	(1924)	48
		-	-	Band freq, Act energy	Fugassi	JPC	46	(1942)	630
		450-1500	L	Spec, Assign	Sheppard	TFS	50	(1950)	533
C_3H_7IO	1-Iodo-2-propanol	-	L	Anal	Stewart	JACS	76	(1954)	1259
C_3H_7IO	2-Iodo-1-propanol	-	L	Anal	Stewart	JACS	76	(1954)	1259
C_3H_7N	N-Methylethylenimine	650-4000	G	Spec, Vib assign, I	Hoffman	JACS	73	(1951)	3028
C_3H_7NO	Acetone oxime	-	-	Quant mech	Bernstein	JCP	6	(1938)	719
		2700-3800	Sol	Spec, H bond	Buswel	JACS	60	(1938)	2444
		1800-1650	Sol	Freq, Ext coeff	Cross	TFS	47	(1951)	354
		-	-	Bond freq	Leonard	JACS	76	(1954)	2781
		3μ	Sol	Freq, H bond	Flett	SA	10	(1958)	21
		3200-3800	Sol	Solvent effect, H bond	Bellamy	TFS	55	(1959)	220
C_3H_7NO	γ-Butyrolactam	1200-8000	Sol	Assign	Hecht	PRS	235A	(1956)	174
C_3H_7NO	N,N-Dimethylformamide	[illegible]	L	Spec, solvent	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		2.85-12.5μ	L	Spec	Hanzeldine	JCS	54	(1954)	4195

C_3H_7NO	N,N-Dimethylformamide	2-15μ	L	Spec, Solvent	Pristera	APS	6	(1952)	29
		3.85-12μ	L	Spec	Haszeldine	JCS	54	(1954)	4145
		2-15μ	Sol	Spec	Piper	JACS	76	(1954)	4318
		1200-8000	Sol	Assign	Hecht	PRS	235	(1956)	174
		-	-	Solvent	Baudern	AC	29	(1957)	166
		-	Sol	Freq, I	Thompson	SA	13	(1958)	236
		1650-1850	Sol,G,L	Solvent effect	Bellamy	TFS	55	(1959)	14
		-	Sol	Bond freq	Baker	JACS	82	(1960)	1923
		51-59μ	Sol	I	Schmulbach	JPC	64	(1960)	1956
C_3H_7NO	N-Methylacetamide	2.6-3.6μ	L	Mol association	Tsuboi	BCSJ	22	(1949)	215
		2.6-3.6μ	L	Struct	Tsuboi	BCSJ	22	(1949)	255
		1.3-3.5μ	G,L,S, Sol	Assign, Thermo	Mizushima	JACS	72	(1950)	3490
		-	L,Sol	Dipole moment	Mizushima	JACS	74	(1952)	5550
		-	-	H bond	Mizushima	JACS	76	(1954)	6003
		2-16μ	L	Spec, Group assign	Asai	JPC	59	(9955)	322
		400-7000	G,L,Sol	Spec, Assign, H bond	Davies	TFS	51	(1955)	761
		2.6-3.4μ	-	Shift, I, H bond	Mizushima	SA	7	(1955)	100
		2μ	S	Freq	Fraser	JCP	24	(1956)	89
		1200-8000	Sol	Freq	Hecht	PRS	235A	(1956)	174
		3μ	Sol	Band pairs	Russell	SA	8	(1956)	138
		400-3400	L,Sol	Spec, Assign, Freq	Beer	JCP	29	(1958)	1097
		2800-3000	Sol	Methyl group detection	Braunholtz	JCS	-	(1958)	2780
		1600-1800	L,Sol	Freq	Hall	JACS	80	(1958)	6428
		900-1800	G,L,S	Freq, Struct	Parsons	JMS	2	(1958)	566
		1.4-1.7μ	Sol	H bond	Klotz	JACS	82	(1960)	5241
		2900-3500	S,L,G	Freq, I	Miyazawa	JMS	4	(1960)	168
		-	Sol	Solvent effect	Suzuki	JCP	32	(1960)	1263
C_3H_7NO	Propionamide	2700-3900	Sol	Spec, H bond	Buswel	JACS	60	(1938)	2444
		-	-	FC	Richards	TFS	44	(1948)	40
		-	-	Ident	Naylor	JACS	75	(1953)	5392
		3100-3600	Sol	Spec, I	Badger	PNAS	40	(1954)	12
		-	Sol	Freq, I	Brown	JPC	63	(1959)	1324
$C_3H_7NO_2$	l-Alanine	750-1750	-	Spec, Freq assign	Fukushima	SA	15	(1959)	236
		-	Sol	Solvent effect, Spec	Ellenbogen	BBA	39	(1960)	174
		6-11μ	Sol	Spec	Parker	N	187	(1960)	386
		1358-909	Sol	Spec	Parker	SA	16	(1960)	910
$C_3H_7NO_2$	dl-Alanine	-	-	Band freq	Buswell	JPC	44	(1940)	1126
		400-3400	S	Anal	Barnes	AC	19	(1947)	620

		1-12 μ	Sol	Spec, Assign, Group freq	Lacher	JPC	58	(1954)	206
		-	-	Bond dist, Bond freq	Margoshes	JCP	22	(1954)	381
		-	S	H bond	Pimentel	JCP	24	(1956)	639
		600-4000	S	I	Epp	AC	29	(1957)	1283
		667-5000	S	Spec, Freq, Struct	Leifer	JACS	79	(1957)	5098
		-	-	Internal study	Wiberly	AC	29	(1957)	210
$C_3H_7NO_2$	β-Alanine	2-16 μ	S	Spec	Toribara	AC	26	(1954)	1519
		667-5000	S	Spec, Freq, Struct	Leifer	JACS	79	(1957)	5098
		6-11 μ	Sol	Spec	Parker	N	187	(1960)	386
		1538 -909	Sol	Spec	Parker	SA	16	(1960)	910
		1350-1550	S	Spec, Ident	Watson	SA	16	(1960)	1322
$C_3H_7NO_2$	Ethyl carbamate	-	L	Freq, H bond	Davies	JCP	20	(1952)	342
		6 μ	S,Sol	Freq assign	Barr	JCS	-	(1956)	3428
		2-9 μ	Sol	Spec, Freq	Jencks	ABB	88	(1960)	193
		650-4000	Sol	Spec	Pianka	JCS	-	(1960)	983
$C_3H_7NO_2$	N-Methylglycine	600-4000	S	Spec	Heacock	CJC	34	(1956)	1782
		1350-1550	S	Spec, Ident	Watson	SA	16	(1960)	1322
$C_3H_7NO_2$	1-Nitropropane	1100-1800	-	Spec	Barnes	IEC	15	(1943)	659
		2-15 μ	-	Spec, Anal	Nielsen	IEC	15	(1943)	609
		2-22 μ	G,L	IR, Assign	Smith	JCP	18	(1950)	706
		2-15 μ	L	Spec, Solvent	Pristera	APS	6	(1952)	29
		-	L	Band freq, I	Haszeldine	JCS	-	(1953)	2525
		2-15 μ	G	Spec	Pierson	AC	28	(1956)	1218
$C_3H_7NO_2$	2-Nitropropane	2-15 μ	-	Spec, Anal	Nielsen	IEC	15	(1943)	609
		2-22 μ	L,G	IR, Assign	Smith	JCP	18	(1950)	706
		2-15 μ	L	Spec, Solvent	Pristera	APS	6	(1952)	29
		1200-2000	Sol	Band freq	Bender	JACS	75	(1953)	6304
		-	L	Band freq, I	Haszeldine	JCS	-	(1953)	2525
		2-15 μ	G	Spec	Pierson	AC	28	(1956)	1218
$C_3H_7NO_2$	Propyl nitrile	-	-	Act energy, Band freq	Fugassi	JPC	46	(1942)	630
		2-23 μ	G	Isomerism	D'or	JCP	19	(1951)	1064
		2-25 μ	G	Isomerism	Tarte	JCP	20	(1952)	1570
		-	-	Anal	Levy	JACS	77	(1955)	2015
$C_3H_7NO_2$	sec-Propyl nitrile	2-25 μ	G	Isomerism	Tarte	JCP	20	(1952)	1570

$C_3H_7NO_2.HCl$	β-Alanine hydrogen chloride	750-1750		Freq	Fukushima	SA	15 (1959) 236
		1350-1550	S	Ident, Spec	Watson	SA	16 (1960) 1322
$C_3H_7NO_2.HCl$	N-Methylglycine hydrogen chloride	600-4000	S	Spec	Heacock	CJC	34 (1956) 1782
		670-5000	S	Spec, Struct, Freq	Leifer	JACS	79 (1957) 5098
		1350-1550	S	Spec, Ident	Watson	SA	16 (1960) 1322
$C_3H_7NO_2S$	Cysteine	-	-	Band freq	Ehrlich	JACS	76 (1954) 5268
$C_3H_7NO_2S.HCl$	Cysteine hydrochloride	-	-	Band freq	Cymerman	JCS	- (1951) 1332
		1538-909	Sol	Spec	Parker	SA	16 (1960) 910
$C_3H_7NO_3$	Isopropyl nitrate	2-15μ	Sol	Spec, Struct	Carrington	SA	16 (1960) 1279
$C_3H_7NO_3$	1-Methoxy-2-nitroethane	-	L	Band freq, I	Haszeldine	JCS	- (1953) 2525
$C_3H_7NO_3$	β-Nitropropanol	850-1600	-	Spec	Barnes	IEC	15 (1943) 659
$C_3H_7NO_3$	n-Propyl nitrate	1-7.5μ	L	Spec, Assign	Plyler	PR	34 (1929) 599
		-	-	Anal	Levy	JACS	77 (1955) 2015
		2-15μ	Sol	Spec, Struct	Carrington	SA	16 (1960) 1279
$C_3H_7NO_3$	d-Serine	-	-	Ident	Hidy	JACS	77 (1955) 2345
$C_3H_7NO_3$	l-Serine	-	S	Ident	Fusari	JACS	76 (1954) 2881
		-	Sol	Spec, Solvent effect	Ellenbogen	BBA	39 (1960) 174
$C_3H_7NO_3$	dl-Serine	-	-	Ident	Hidy	JACS	77 (1955) 2345
		600-4000	S	Ident	Epp	AC	29 (1957) 1283
		6-11μ	Sol	Spec	Parker	N	187 (1960) 386
$C_3H_7NO_5S.H_2O$	l-Cysteic acid, Hydrate	1540-900	Sol	Spec	Parker	SA	16 (1960) 910
C_3H_7NS	Thiopropionamide	689-3375	S	Freq, Table	Marvel	JACS	77 (1955) 5997
$C_3H_7N_2O_2.HCl$	d-Serineamide hydrochloride	-	-	Ident, Spec	Hidy	JACS	77 (1955) 2345
$C_3H_7N_2O_2.HCl$	l-Serineamide hydrochloride	-	-	Ident, Spec	Hidy	JACS	77 (1955) 2345
$C_3H_7N_3$	2-Aminoimidazoline	800-3500	S	Spec	Goto	BCSJ	30 (1957) 723
$C_3H_7N_3O$	Acetaldehyde semicarbazone	700-3500	S	Assign, Ident	Davison	JCS	- (1955) 3389

$C_3H_7N_5$	1,3-Dimethyl-5-iminotetrazole	-	-	Complex const	Henry	JACS	76	(1954)	2894
$C_3H_7N_5$	1,4-Dimethyl-5-iminotetrazole	2-6.6μ	S	Band Freq	Murphy	JOC	19	(1954)	1807
$C_3H_7N_5$	1-Methyl-5-methylaminotetrazole	2-6.6μ	S	Band freq	Murphy	JOC	19	(1954)	1807
$C_3H_7N_5.HCl$	1,4-Dimethyl-5-iminotetrazole hydrochloride	2-6.6μ	S	Bond freq	Murphy	JOC	19	(1954)	1807
$C_3H_7N_5.HNO_3$	1-Ethyl-5-aminotetrazole nitrate	2-15μ	S	Spec	Garrison	JOC	22	(1957)	278
$C_3H_7N_5O_2$	Nitroguanylhydrazone of acetaldehyde	2-15μ	S	Spec, Freq	Lieber	AC	23	(1951)	1594
$C_3H_7N_5O_3$	1-Acetamido-3-nitroguanidine	2-15μ	S	Spec, Freq	Lieber	AC	23	(1951)	1594
$C_3H_7O_3S$	n-Propane-1-sulfonate	500-4000	S	Stretch freq	Fujimori	BCSJ	32	(1959)	850
C_3H_8	Propane	20.7-152μ	G	Spec	Strong	PR	42	(1932)	267
		-	-	Bond freq	Mecke	TFS	30	(1934)	200
		-	-	Thermo	Beeck	JCP	4	(1936)	680
		-	-	Thermo	Kassel	JCP	4	(1936)	435
		-	-	Thermo	Kassel	JCP	4	(1936)	276
		-	G	Reft index, Density	Keyes	CR	19	(1936)	195
		-	-	FC, IR	Bonner	JCP	5	(1937)	293
		-	-	Freq assign	Edsall	JCP	5	(1937)	225
		-	-	Freq	Kirkwood	JCP	7	(1939)	506
		-	-	Thermo	Kistiakowsky	JCP	8	(1940)	610
		-	G	Thermo, Chem equil review	Pitzer	CR	27	(1940)	39
		-	-	Freq, Thermo	Pitzer	JCP	8	(1940)	711
		1.37-35μ	G	Spec, Assign	Wu	JCP	9	(1941)	487
		-	-	Thermo	Pitzer	JCP	10	(1942)	605
		-	-	Internal rot	Aston	JCP	12	(1944)	336
		-	-	Thermo	Pitzer	JCP	12	(1944)	310
		-	G	Anal	Jones	IEC	17	(1945)	349
		-	-	Freq	Kellner	TFS	41	(1945)	217
		-	-	FC, Assign	Ahonen	JCP	14	(1946)	625
		-	-	Pot barrier	French	JCP	14	(1946)	659
		-	-	Ext coeff. Anal	Lee	IEC	18	(1946)	[illegible]
		-	-	[illegible]	[illegible]	JCP	15	(1947)	[illegible]

		-	-	Pot barrier	French	JCP	14	(1946)	389
		-	-	Ext coeff, Anal	Lee	IEC	18	(1946)	659
		-	-	Spec, Press broadening	Coggeshall	JCP	15	(1947)	65
		-	-	FC	Ramsay	PRS	A190	(1947)	245
		-	G	Press broadening, Anal	Seyfried	IEC	19	(1947)	298
		-	-	Vib freq	Taylor	JRNB	38	(1947)	1
		-	-	Quant mech, Assign	Decius	JCP	16	(1948)	1025
		20-37 μ	G	Spec	Hyde	JCP	16	(1948)	744
		-	-	Assign	Rasmussen	JCP	16	(1948)	712
		2-15 μ	G	Spec, Assign	Friedman	JCP	17	(1949)	1012
		27 μ	G	Spec, Assign	Gates	JCP	17	(1949)	393
		-	-	Electrostatic theory	Lassette	JCP	17	(1949)	317
		2-15 μ	G	Spec, Assign	Mcmurry	JCP	17	(1949)	918
		-	G	Anal	Milson	AC	21	(1949)	547
		2-15 μ	G	Spec, Assign	Mcmurry	JCP	18	(1950)	1515
		-	G	Anal	O'Neal	AC	22	(1950)	991
		-	G	Anal	Stroupe	AC	22	(1950)	1125
		-	-	Freq	Barrow	JCP	19	(1951)	345
		2-15 μ	G	Spec, Assign	Mcmurry	JCP	19	(1951)	1014
		-	G	Emission glow discharge	Talley	JOSA	42	(1952)	982
		2-16 μ	G	Spec	Thompson	JPC	56	(1952)	243
		-	-	Freq	Mizushima	JCP	21	(1953)	215
		10-15 μ	G	Spec	Patterson	AC	26	(1954)	823
		-	-	Rocking freq	Corish	JCS	-	(1955)	2431
		-	-	Freq correction	Sheppard	JCP	23	(1955)	582
		2-10 μ	G	Anal	Littwan	AC	28	(1956)	945
		2-15 μ	G	Spec	Pierson	AC	28	(1956)	1218
		-	-	Press modulation	Gilfert	JOSA	48	(1958)	765
		700-1200	G,L	Rocking freq	Novak	TFS	55	(1959)	1484
		700-3500	L	Spec, Freq	Comeford	JMS	5	(1960)	474
		-	G	Micro spec, Struct, Dipole	Lide	JCP	33	(1960)	1514
		700-1200	G	Freq	Randic	TFS	56	(1960)	1
$CC_2^{13}H_8$	Propane-1,3 (isotopic)	-	-	FC, Isotopic effect	Bigeleisen	JCP	17	(1949)	344
C_3H_8ClOPS	Ethylmethylphosphono-chloridothionate	400-830	L	Band assign	McIvor	CJC	37	(1959)	869
C_3H_8ClOPS	Thiophosphorylethoxy-methyl chloride	-	-	Spec	Popov	ZOK	29	(1959)	1998
$C_3H_8Cl_2Si$	Propyldichlorosilane	2-16 μ	Sol	Freq, Spec, Struct	Smith	SA	16	(1960)	87

$C_3H_8Cl_2Si$	Isopropyldichlorosilane	2050-2250	Sol	Freq, Struct	Smith	SA	15 (1959)	412
$C_3H_8N_2$	Methylenedimethylhydrazine	2-15μ	G	Spec	Olsen	JCP	24 (1956)	1106
		2-15μ	G	Spec	Pierson	AC	28 (1956)	1218
$C_3H_8N_2O$	N,N-Dimethylurea	3μ	Sol	Freq	Russell	SA	8 (1956)	138
$C_3H_8N_2O$	N,N'-Dimethylurea	-	Sol	Freq, Vib	Becher	NWS	43 (1956)	467
		3-7μ	S	H bond	Sekine	KKZ	60 (1957)	657
		1600-1800	Sol	Bond freq	Hall	JACS	80 (1958)	6428
$C_3H_8N_2O_6$	Urea oxalate	-	S	H bond	Pimental	JCP	24 (1956)	639
$C_3H_8N_4O_2$	N-Ethyl-N'-nitroguanidine	2-15μ	S	Spec, Freq	Lieber	AC	23 (1951)	1594
$C_3H_8N_4O_2$	N-Methylene-bis-(N-methyldiimide) dioxide	600-1600	L,Sol	Freq	George	CJC	37 (1959)	679
$C_3H_8N_6O_3$	Guanidine carbonate	800-3500	S	Spec	Goto	BCSJ	30 (1957)	723
C_3H_8O	Ethyl methyl ether	-	-	Act energy, Band freq	Fugassi	JPC	46 (1942)	630
C_3H_8O	1-Propanol	.6-1.35μ	L	Conc variation	Hulburt	JPC	21 (1917)	150
		-	-	Bond freq, Absorption	Bonino	TFS	25 (1929)	876
		.8-2.5μ	L	Spec	Sappenfield	PR	33 (1929)	37
		1-8μ	L	Spec, Assign	Plyler	PR	35 (1930)	605
		-	G	Spec	Badger	JCP	4 (1936)	711
		.9-4μ	L,Sol	Spec, H bond	Kinsey	JCP	5 (1937)	399
		2.8-6.2μ	L,Sol	Spec, Table, Band freq	Williams	JPC	41 (1937)	645
		-	G	Bond study	Zumwalt	JACS	62 (1940)	305
		1050-1800	-	Anal, Spec	Barnes	IEC	15 (1943)	659
		-	-	Anal	Anderson	AC	20 (1948)	998
		2-40μ	G	Spec	Plyler	PR	74 (1948)	1247A
		720-750	L	Band freq	Wiberly	AC	22 (1950)	841
		2.7-3.2μ	Sol	H bond	Coggeshall	JACS	73 (1951)	5414
		3100-3700	L	H bond, I	Francis	JCP	19 (1951)	505
		2800-3000	Sol	Stretch freq, Spec	Pozefsky	AC	23 (1951)	1611
		2-34μ	G,Sol	Spec, Assign	Plyler	JRNB	48 (1952)	281
		-	Sol	Bond freq, H bond	Haszeldine	JCS	- (1953)	1757
		3100-3700	Sol	Solvent effect, Ext coeff	Stuart	JCP	21 (1953)	1115
		665-5000	L	Bond freq	Zeiss	JACS	75 (1953)	897

		-	Sol	Freq shift	Josien	JCP	22	(1954)	1169
		-	L	Bond comparisons	Mosher	AC	27	(1955)	517
		350-4000	L,G,Sol	Spec, Band	Stuart	JCP	24	(1956)	559
		2-15μ	G	Spec, Quant anal	Friedel	AC	29	(1957)	1362
		-	G	Bending freq	Tarte	JCP	26	(1957)	962
		3μ	Sol	Freq, H bond	Flett	SA	10	(1958)	21
		3570-3700	Sol	I, Freq	Flynn	AJC	12	(1959)	575
		-	-	Absorption band assign	Michinori	BCSJ	32	(1959)	950
		700-4000	Sol	Freq, Ext coeff	DeMaine	CJC	38	(1960)	1921
C_3H_8O	2-Propanol	-	-	Absorption coeff	Bonino	TFS	25	(1929)	876
		.8-2.9μ	L	Spec	Sappenfield	PR	33	(1929)	37
		1-8μ	L	Spec, Assign	Plyler	PR	35	(1930)	605
		6900-7200	Sol	Spec, Anal	Wulf	JACS	57	(1935)	1464
		-	G	Spec	Badger	JCP	4	(1936)	711
		-	-	Thermo	Schumann	JCP	6	(1938)	485
		1050-1800	-	Spec	Barnes	IEC	15	(1943)	659
		-	-	Internal rot	Aston	JCP	12	(1944)	336
		-	-	Anal	Anderson	AC	20	(1948)	998
		7-14μ	-	Formation of hemiacetals	Ashdown	JCS	-	(1948)	1454
		800-4000	L	Mass spec	Codon	JCP	19	(1951)	1010
		2800-3000	Sol	Spec, Stretch freq	Pozefsky	AC	23	(1951)	1611
		15-25μ	L	Opaque	Marrison	JSI	29	(1952)	233
		2-16μ	L	Spec, Solvent	Anderson	JOSA	43	(1953)	221
		-	Sol	H bond, Bond freq	Haszeldine	JCS	-	(1953)	1757
		665-5000	L	Bond freq	Zeiss	JACS	75	(1953)	897
		-	-	Freq correct	Sheppard	JCP	23	(1955)	582
		-	-	Freq, Shift, I	Finch	JCP	24	(1956)	908
		350-4000	L,Sol	Band	Stuart	JCP	24	(1956)	559
		2-15μ	G	Spec, Quant anal	Friedel	AC	29	(1957)	1362
		-	G	Bending freq	Tarte	JCP	26	(1957)	962
		3μ	Sol	H bond, Bond freq	Flett	SA	10	(1958)	21
		3100-3550	Sol	H bond	Lund	ACS	12	(1958)	298
		3570-3700	Sol	Freq, I	Flynn	AJC	12	(1959)	575
		-	-	Absorption band assign	Michinori	BCSJ	32	(1959)	950
		700-4000	Sol	Freq, Ext coeff	DeMaine	CJC	38	(1960)	1921
$C_3H_8O_2$	Dimethoxymethane	3-33μ	G,Sol	Spec, Freq assign	Wilmshurst	CJC	36	(1958)	285
		700-5000	L,Sol	Group freq	Briggs	AC	29	(1957)	904
		-	G,L	Freq	Kenkichi	NKZ	80	(1959)	1112
$C_3H_8O_2$	Isopropyl hydroperoxide	5-15μ	Sol	Spec, Band	Minkoff	PRS	224	(1954)	176
$C_3H_8O_2$	2-Methoxyethanol	10300-10700	G	Bond study	Zumwalt	JACS	62	(1940)	305
		825-1500	-	Spec	Barnes	IEC	15	(1943)	659

		-	-	Spec, Band freq	Klemperer	JACS	74	(1952)	3425
		1500-5000	Sol	Group freq	Briggs	AC	29	(1957)	904
		3μ	Sol	H bond, Bond freq	Flett	SA	10	(1958)	21
		-	-	Isomerism	Kuhn	ZAC	170	(1959)	106
		7-14μ	L	Rocking freq	Miyake	JACS	82	(1960)	3040
$C_3H_8O_2$	1,2-Propanediol	2400-4000	-	Spec, H bond	Barnes	JCP	4	(1936)	722
		2.6-3.1μ	Sol	H bond	Wall	JACS	61	(1939)	2679
		15-25μ	L	Opaque	Marrison	JSI	29	(1952)	233
		700-1500	L	Spec, Ident	Shay	AC	26	(1954)	652
		-	G	Spec	Boullet	CPR	246	(1958)	2364
		863-1131	Sol	Anal	Pinchas	AC	31	(1959)	1742
$C_3H_8O_2$	1,3-Propanediol	-	-	Bond freq, Absorption coeff	Bonino	TFS	25	(1929)	876
		3μ	Sol	Spec, Freq	Kuhn	JACS	74	(1952)	2492
$C_3H_8O_2$	n-Propyl hydroperoxide	-	L	Group freq	Mosher	AC	27	(1955)	517
$C_3H_8O_2S$	Methyl ethyl sulfone	1000-1500	Sol	Spec	Schreiber	AC	21	(1949)	1168
$C_3H_8O_3$	Glycerol	52μ	L	Absorption	Hollnagel	PR	11	(1918)	505
		4-27mm	L	Ext coeff, Refract index	Tear	PR	21	(1923)	611
		-	-	Ext coeff, Bond freq	Bonino	TFS	25	(1929)	876
		5-7.5μ	L	Absorption	Cartwright	PR	35	(1930)	415
		0-8.7μ	-	Dispersion	Korff	RMP	4	(1932)	471
		2400-4000	-	Spec, H bond	Barnes	JCP	4	(1936)	722
		52-152μ	L	Dispersion	Cartwright	PRS	154	(1936)	138
		-	-	Ext coeff	Errera	TFS	33	(1937)	120
		6.2μ	L,Sol	Spec, Table, Band freq	Williams	JPC	41	(1937)	645
		700-1500	L	Spec, Ident	Shay	AC	26	(1954)	652
		-	-	Solvent effect	Matheson	AC	30	(1958)	63
		2.5-3.5μ	S	No. of OH groups	Kabasakalian	AC	31	(1959)	375
$C_3H_8O_3$	1-Hydroxy-1-hydroperoxy-propane	5-15μ	Sol	Spec, Peroxide bands	Minkoff	PRS	224	(1954)	176
$C_3H_8O_3$	1-Hydroxy-1-methylperoxy-ethane	5-15μ	Sol	Spec, Peroxide bands	Minkoff	PRS	224	(1954)	176
C_3H_8S	Ethyl methyl sulfide	500-1700	L	Spec, Assign	Trotter	JCS	-	(1946)	481

		1000-1500	Sol	Spec	Schreiber	AC	21	(1949)	1168
		-	L,S	No evidence of isomerism	Rank	JCP	18	(1950)	392
		2800-3000	Sol	Spec, Stretch freq	Pozefsky	AC	23	(1951)	1611
		-	L	Table, Bond freq, Thermo	Scott	JACS	73	(1951)	261
		-	-	Group freq, Stretch freq	Brandt	JCS	-	(1952)	2549
		2-25μ	L	Spec	Haines	JPC	58	(1954)	270
		3-14μ	-	Comparison	Coleman	AC	28	(1956)	1380
		653-1456	G,L,S	Freq, Iso	Hayashi	JCP	26	(1957)	608
		200-1500	-	Freq, Assign, Struct	Scott	JACS	80	(1958)	3554
C_3H_8S	Isopropyl mercaptan	500-1700	G	Spec, Assign	Trottor	JCS	-	(1946)	481
		-	-	Bond freq	Sheppard	TFS	46	(1950)	429
		-	-	Freq, Assign	Sheppard	TFS	46	(1950)	533
		2800-3000	Sol	Stretch freq, Spec	Pozefsky	AC	23	(1951)	1611
		262-2950	G,L	Spec, I, Assign	McCullough	JACS	76	(1954)	4796
		-	-	IR, Mass spec	Haines	JPC	60	(1956)	549
		2500-2700	Sol	I, Dimerization	Spurr	JPC	62	(1958)	425
		200-1500	-	Freq, Assign, Struct	Scott	JACS	80	(1958)	3554
C_3H_8S	n-Propyl mercaptan	.6-2.8μ	L	Bond study	Ellis	JACS	50	(1928)	2113
		2.75-4.25μ	L	Bond freq	Williams	PR	54	(1938)	504
		500-1700	G	Assign, Spec	Trotter	JCS	-	(1946)	481
		-	-	IR, Freq, FC	Sheppard	TFS	46	(1950)	429
		2800-3000	Sol	Stretch freq, Spec	Pozefsky	AC	23	(1951)	1611
		3-14μ	-	Comparison	Coleman	AC	28	(1956)	1380
		-	-	Stretch, Vib, Shift	Benson	JCP	27	(1957)	1164
		2500-2700	Sol	I, Absorption coeff	Spurr	JPC	62	(1958)	425
		2300-2700	L,Sol	Struct	Bulanin	OS	6	(1959)	754
$C_3H_8S_2$	1,1-Propanedithiol	2.5-15μ	L	Spec	Cairns	JACS	74	(1952)	3982
$C_3H_8S_2$	2,2-Propanedithiol	2.5-15μ	L	Spec, Band freq	Cairns	JACS	74	(1952)	3982
$C_3H_9DF_4NB$	Trimethylammonium-fluoroborate-d_1	-	S	H bond, Band freq	Nuttall	JCS	-	(1960)	4965
C_3H_9DIN	Trimethylammonium iodide-d_1	400-4000	S	Assign	Ebsworth	SA	13	(1959)	261
C_3H_9DSi	Trimethylsilane-d_1	400-3500	G	Assign	Ball	SA	16	(1960)	1358
C_3H_9BrSi	Bromotrimethylsilane	-	-	Assign, NCA, Table, Freq	Tobin	JACS	75	(1953)	1788
$C_3H_9Br^{79}Si$	Bromotrimethylsilane (isotopic)	-	G	Microwave	Ollom	JCP	24	(1956)	487

$C_3H_9Br^{81}Si$	Bromotrimethylsilane (isotopic)	-	G	Microwave	Ollom	JCP	24	(1956)	487
$C_3H_9Br_2P$	Trimethylphosphorus dibromide	-	-	Spec, FC	Goubeau	ZE	64	(1960)	598
$C_3H_9Br_3NB$	Tribromotrimethyl-aminoborine	2-16μ	Sol	Absorption band	Osthoff	JACS	73	(1951)	4045
$C_3H_9ClO_3Si$	Trimethoxychlorosilane	2-25μ	-	Assign	Forneris	ZE	62	(1958)	1130
C_3H_9ClSi	Chlorotrimethylsilane	-	-	Assign, FC	Duchesne	JCP	16	(1948)	1006
		-	-	Assign	Shimanouchi	JCP	18	(1950)	1306
		-	-	Assign, NCA, Table	Smith	JCP	21	(1953)	1997
		2-25μ	G	Spec, Assign	Tobin	JACS	75	(1953)	1788
		400-5000	Sol	Ident	Smith	AC	31	(1959)	1174
		-	L	NCA	Shimizu	JMS	4	(1960)A	201
		2-16μ	Sol	Spec, Freq, Struct	Smith	SA	16	(1960)	87
$C_3^{12}H_9Cl^{35}Si^{28}$	Chlorotrimethylsilane (isotopic)	-	-	Microwave	Mockler	JCP	21	(1953)	1710
$C_3^{12}H_9Cl^{37}Si^{28}$	Chlorotrimethylsilane (isotopic)	-	-	Microwave	Mockler	JCP	21	(1953)	1710
$C_3H_9Cl_2P$	Trimethylphosphorus dichloride	-	-	Spec, FC	Goubeau	ZE	64	(1960)	598
$C_3H_9Cl_3NB$	Trimethylamine boron trichloride	-	-	Freq assign	Katritzky	JCS	-	(1959)	2049
		600-3500	S	Spec	Katritzky	JCS	-	(1960)	1772
$C_3H_9Cl_3N_3B_3$	β-Trichloro-N-trimethyl-borazole	-	S	Assign, NCA, I, Freq	Watanabe	SA	19	(1960)	78
C_3H_9FSi	Fluorotrimethylsilane	27-41 Mc/sec	G	Struct, Microwave	Gounton	JCP	22	(1954)	1942
		-	-	Freq, FC	Kriegsmann	ZAUA	294	(1958)	113
$C_3H_9F_3NB$	Trimethylamine boron trifluoride	-	-	Freq assign	Katritzky	JCS	-	(1954)	2049
C_3H_9IOS	Dimethylsulfoxide methiodide	650-4000	S	Assign, Spec	Cotton	JPC	64	(1960)	1534
C_3H_9ISi	Iodotrimethylsilane	-	G	Microwave	Rexroad	JCP	24	(1956)	625

$C_3H_9I_2P$	Trimethylphosphorus diiodide	-	-	Spec, FC	Goubeau	ZE	64	(1960)	598
C_3H_9N	Isopropylamine	-	-	Freq correction	Sheppard	JCP	23	(1955)	582
		2-8 μ	Sol	Spec	Nakanishi	BCSJ	30	(1957)	403
		3000-4000	Sol	Bond freq, I	Orville	JCS	-	(1958)	1047
		2-15 μ	L,G,Sol	Bond freq, NCA, Assign	Stewart	JCP	30	(1959)	1259
$C_3H_9N.HCl$	Isopropylamine hydrochloride	2-8 μ	Sol	Spec	Nakanishi	BCSJ	30	(1957)	403
C_3H_9N	n-Propylamine	1-12 μ	L	Spec, Bond study	Bell	JACS	49	(1927)	1837
		.6-1.8 μ	L	Bond study	Ellis	JACS	50	(1928)	685
		.8-2.5 μ	L	Spec	Shappenfield	PR	33	(1929)	37
		3000-4000	Sol,G	Bond freq, I	Orville	JCS	-	(1958)	1047
		2-15 μ	L,G,Sol	Bond freq, Assign	Stewart	JCP	30	(1959)	1259
C_3H_9N	Trimethylamine	-	-	Freq assign	Edsall	JCP	5	(1937)	225
		-	-	Thermo, Assign	Aston	JACS	66	(1944)	1171
		-	-	Pot barrier	French	JCP	14	(1946)	389
		-	-	FC, Bond dist	Gordy	JCP	14	(1946)	305
		-	-	FC, Theory	Sheline	JCP	18	(1950)	602
		-	-	Freq	Weston	JACS	76	(1954)	2645
		4520-400	G	Freq assign, FC, Band freq	Barcelo	SA	8	(1956)	27
		2-15 μ	G	Spec, Threshold values	Pierson	AC	28	(1956)	1218
		1.2-24K Mc/sec	G	Spec, Non resonance	Birnbaum	JCP	27	(1957)	360
		2800-3000	G	Methyl group detection	Braunholtz	JCS	-	(1958)	2780
		-	G	Spec, Mol const	Lide	JCP	28	(1958)	572
		2-25 μ	G	Spec	Bauer	JMS	3	(1959)	132
		180-535	G	Assign, Freq, I, Wave no	Lorenzelli	CPR	249	(1959)	239
		7-25K Mc/sec	G	Absorption coeff, Mol const	Ilias	CPR	250	(1960)	1833
		30-50 μ	G	Spec, Mol const	Robinson	JCP	32	(1960)	556
$C_3H_9N.HCl$	n-Propylamine hydrochloride	-	-	Ident	Wiesner	JACS	75	(1953)	6348
		2-8 μ	Sol	Spec	Nakanishi	BCSJ	30	(1957)	403
$C_3H_9N.HCl$	Trimethylamine hydro-	2-8 μ	Sol	Spec	Nakanishi	BCSJ	30	(1957)	403
		1350-1550	S	Spec, Ident	Watson	SA	16	(1960)	1322
C_3H_9NO	N-Methyl-2-aminoethanol-1	-	Sol	Group freq, H bond, I	Bergmann	JACS	75	(1953)	68
		-	-	Isomerism	Kuhn	ZAC	170	(1959)	106

C_3H_9NO	Trimethylamine oxide	-	-	Binding force	Goubeau	ZAC	258	(1949)	18
C_3H_9NO	Trimethylhydroxylamine	420-4000	G,L,Sol	Assign, Spec	Davies	JCS	-	(1959)	3971
$C_3H_9N_3$	N,N-Dimethylguanidine	800-3500	S	Spec, Charge distribution	Goto	BCSJ	30	(1957)	723
$C_3H_9N_3$	N,N'-Dimethylguanidine	800-3500	S	Spec, Charge distribution	Goto	BCSJ	30	(1957)	723
$C_3H_9N_3.HCl$	N,N-Dimethylguanidine hydrochloride	800-3500	S	Spec	Goto	BCSJ	30	(1957)	723
$C_3H_9N_3O_2$	Guanidine acetate	-	S	Band freq	Pickard	JACS	76	(1954)	5167
		800-3500	S	Spec	Goto	BCSJ	30	(1957)	723
$C_3H_9N_3S$	4,4-Dimethylthiosemi-carbazide	700-1700	S	Spec, Struct, Assign,	Lieber	CJC	36	(1958)	801
$C_3H_9N_3S$	4-Ethylthiosemicarbazide	700-1700	S	Spec, Struct, Assign,	Lieber	CJC	36	(1958)	801
C_3H_9OP	Trimethylphosphine oxide	2-21μ	S	Spec	Daasch	AC	23	(1951)	853
		450-5000	S	Assign	Daasch	JCP	19	(1951)	22
		-	-	Freq	Bell	JACS	76	(1954)	5185
		800-1400	S	Freq	Cotton	JCS	-	(1960)	2199
		650-4000	S,G	Spec	Gaubeau	ZAUA	304	(1960)	147
C_3H_9OB	Dimethylmonomethoxy-borine	250-4000	-	Spec, Assign	Goubeau	ZPC	20	(1959)	15
$C_3H_9O_2PS$	Ethylmethylphosphonothioic acid	740-1500	Sol	Assign	McIvor	CJC	37	(1959)	869
$C_3H_9O_2B$	Monomethyldimethoxyborine	250-4000	-	Spec, Assign	Goubeau	ZPC	20	(1959)	15
$C_3H_9O_3P$	Dimethyl methylphosphonate	2-25μ	L	Spec, Table, Struct	Meyrick	JCS	-	(1950)	225
		-	-	Shift	Bell	JACS	76	(1954)	5185
$C_3H_9O_3P$	Trimethylphosphite	2-25μ	L	Spec, Table, Struct	Meyrick	JCS	-	(1950)	225
$C_3H_9O_3PS$	Trimethylthionophosphate	2-21μ	L	Spec, Struct anal	Daasch	AC	23	(1951)	853
$C_3H_9O_3B$	Trimethoxyborane	400-3000	L,G	Spec, Assign, Normal vib	Servoss	JCP	26	(1957)	1179

		250-4000	-	Spec Assign	Goubeau	ZPC	20	(1959)	15
		2-15μ	G	Spec, Freq assign	Lehmann	JPC	30	(1959)	1219
		2-15μ	G	Freq assign	Lehmann	JPC	30	(1959)	1215
$C_3H_9O_3B$	Trimethylborate	670-1800	S	Spec, Freq	Werner	AJC	8	(1955)	355
$C_3H_9O_3B_3$	Trimethylmetaboric acid	250-4000	-	Spec, Assign	Goubeau	ZPC	20	(1959)	15
$C_3H_9O_4P$	Ethoxymethoxyhypo-phosphorous acid	600-4000	S	Group	Braunholtz	JCS	-	(1959)	868
$C_3H_9O_4P$	Ethylmethyl phosphate	2-21μ	L	Spec, Struct anal	Daasch	AC	23	(1951)	853
		-	-	Bond freq	Bell	JACS	76	(1954)	5185
$C_3H_9O_4P$	Trimethylphosphate	2-21μ	Sol	Spec, Struct anal	Daasch	AC	23	(1951)	853
		-	Sol	Band & group freq	Bergmann	JCS	-	(1952)	847
		-	-	Shift, Bond freq	Bell	JACS	76	(1954)	5185
		450-1600	L,S	Spec, Assign, Freq, Isomerism	Mortimer	SA	9	(1957)	270
C_3H_9P	Trimethylphosphine	3-20μ	G	Spec	Wagstaffe	TFS	40	(1944)	41
		-	-	Pot barrier	French	JCP	14	(1946)	389
		-	-	FC, Bond dist	Gordy	JCP	14	(1946)	305
		-	-	FC, Theory	Sheline	JCP	18	(1950)	602
		-	-	Freq correction	Daasch	AC	23	(1951)	853
		14.1-15.3μ	-	Band freq	Daasch	JCP	19	(1951)	22
		-	-	Freq	Weston	JACS	76	(1954)	2645
		-	-	Bond freq	Sheppard	TFS	51	(1955)	1465
		-	-	Assign, Mol const, Struct	Lide	JCP	29	(1958)	914
		650-5000	G	Spec, Assign	Helmann	SA	16	(1960)	407
C_3H_9PS	Trimethylphosphine sulphide	-	-	IR	Hooge	RTC	77	(1958)	911
$C_3H_9PS_4$	Ethylmethylphosphono-tetrathoic acid	1950-2650	L,Sol	H bond	Alford	CIL	-	(1959)	514
$C_3H_9PS_4$	Trimethylphosphoro-tetrathioate	2-25μ	-	Spec, Struct	Menefee	JOC	22	(1957)	792
C_3H_9S	Trimethylsulfonium ion	-	-	Freq	Weston	JACS	76	(1954)	2645
C_3H_9AS	Trimethylarsine	-	-	FC, Bond dist	Gordy	JCP	14	(1946)	305
		-	-	FC, Theory	Sheline	JCP	18	(1950)	602
		-	-	Confirmed purity	Ayscough	JCS	-	(1954)	3381
		-	-	Freq	Weston	JACS	76	(1954)	2645

		-	-	Bond freq	Sheppard	TFS	51	(1955)	1465
		18-29K Mc/sec	G	Mol const, Internal rot	Lide	SA	15	(1959)	473
C_3H_9B	Trimethylborane	-	-	Pot barrier	French	JCP	14	(1946)	389
		2-20μ	G	Spec, Assign	Goubeau	ZAUA	268	(1952)	1
		-	-	FC, Assign	Siebert	ZAUA	268	(1952)	13
		2-40μ	G	Spec, Assign, Struct	Stewart	JRNB	56	(1956)	337
		2-15μ	G	Freq, Assign	Lehmann	JCP	28	(1958)	777
$C_3H_9B^{10}$	Trimethylborane (isotopic)	2-15μ	G	Freq, Assign	Lehmann	JCP	28	(1958)	777
$C_3H_{10}BrN$	Trimethylammonium bromide	-	S	H bond, Band freq	Nuttall	JCS	-	(1960)	4965
$C_3H_{10}ClNO$	Trimethylhydroxylammonium chloride	400-4000	-	Spec, FC	Frasco	DA	19	(1958)	1219
$C_3H_{10}ClNO_4$	Trimethylammonium perchlorate	-	S	H bond, Band freq	Nuttall	JCS	-	(1960)	4965
$C_3H_{10}Cl_4NB$	Trimethylammonium tetra-chloroborate	600-3500	S,L	Spec	Kynaston	JCS	-	(1960)	1772
$C_3H_{10}F_4NB$	Trimethylammonium tetra-fluoroborate	-	S	H bond, Bond freq	Nuttall	JCS	-	(1960)	4965
$C_3H_{10}F_6NP$	Trimethylammonium hexafluoro-phosphate	-	S	H bond, Bond freq	Nuttall	JCS	-	(1960)	4965
$C_3H_{10}IN$	Trimethylammonium iodide	400-4000	S	Assign	Ebsworth	SA	13	(1959)	261
		-	S	H bond, Bond freq	Nuttall	JCS	-	(1960)	4965
$C_3H_{10}N$	Trimethylammonium ion	-	-	Freq, Assign	Edsall	JCP	5	(1937)	225
$C_3H_{10}NO_2PS$	Thiophosphorylmethylamino-dimethoxy halide	-	-	Spec, Freq	Popov	ZOK	29	(1959)	1998
$C_3H_{10}N_2$	Trimethylhydrazine	700-3500	G,L	IR, Freq, Assign	Shull	JCP	22	(1954)	1191
		307-3405	-	Thermo, Table	Aston	JACS	77	(1955)	281
		2-15μ	G	Spec	Olsen	JCP	24	(1956)	1106
		2-15μ	G	Spec, Threshold values	Pierson	AC	28	(1956)	1218

$C_3H_{10}OSi$	Trimethylsilanol	2-16μ	Sol	Spec, H bond, Group freq	Tatlock	JOC	17	(1952)	1555
		-	S	Bond freq	Kantor	JACS	75	(1953)	2712
		-	-	Freq	Kriegsmann	ZAUA	294	(1958)	113
		3300-3700	Sol	H bond	West	JACS	81	(1959)	6145
$C_3H_{10}O_3Si$	Trimethoxysilane	2050-2250	Sol	Freq shift, Struct	Smith	SA	15	(1959)	412
$C_3H_{10}Si$	Trimethylmercaptosilane	-	-	Freq, FC	Kriegsmann	ZAUA	294	(1958)	113
$C_3H_{10}Si$	Trimethylsilane	2-16μ	G	Spec, Group freq	Kaye	JOC	18	(1953)	1750
		-	-	Group freq, Thermo	Tannenbaum	JACS	75	(1953)	3753
		2-16μ	G	Spec not shown	White	JACS	76	(1954)	3897
		400-3500	G	Assign	Ball	SA	16	(1960)	1358
		-	G	Micro spec, Struct, Dipole	Pierce	JCP	33	(1960)	907
$C_3H_{12}NB$	Trimethylamine borine	-	-	Absorption freq	Price	JCP	17	(1949)	1044
$C_3H_{12}NB$	Trimethylborane ammoniate	250-300	-	Spec	Goubeau	ZAUA	268	(1952)	1
$C_3H_{12}N_3B$	Trimethylaminoboron	2-15μ	L	Freq, Assign	Aubrey	JCS	-	(1960)	5239
$C_3H_{12}N_3B_3$	N-Trimethylborazole	-	-	Absorption freq	Price	JCP	17	(1949)	1044
$C_3H_{12}N_6O_3$	Guanidine carbonate	2.2-4.2μ	S	Spec	Buswell	JPC	46	(1942)	575
		-	S	Bond freq	Pickard	JACS	76	(1954)	5169
		800-3500	Sol	Spec	Goto	BCSJ	30	(1957)	723
$C_3H_{12}O_3$	Methanol (trimer)	2700-3700	-	H bond, Stretch bond	Thiel	JCP	27	(1957)	95
$C_3H_{12}O_3Si_3$	Cyclotrimethylsiloxane	2050-2250	Sol	Freq, Struct	Smith	SA	15	(1959)	412
$C_3H_{12}NB$	Trimethylamine borine complex	-	-	Freq assign	Katritzky	JCS	-	(1959)	2049
$C_3H_{12}B_2$	Trimethyldiborane	-	-	Spec, Struct	Cowan	JCP	17	(1949)	218
		1500-2850	-	Freq	Shapiro	JCP	29	(1958)	237
$C_3H_{15}NSi_3$	Tri-(methylsilyl) nitride	400-4000	G	Spec, Assign	Ebsworth	JCS	-	(1958)	1453
C_3DN	Cyanoacetylene-d_1	-	-	Mol const, Inertia	Westenberg	JACS	72	(1950)	199
$C^{13}C_2DN$	Cyanoacetylene-d_1 (isotopic)	-	-	Mol const, Inertia	Westenberg	JACS	72	(1950)	199

$C_2C^{13}DN$	Cyanoacetylene-d_1 (isotopic)	-	-	Mol const, Inertia	Westenberg	JACS	72 (1950)	199
$C_2C^{13}DN$	Cyanoacetylene-d_1 (isotopic)	-	-	Mol const, Inertia	Westenberg	JACS	72 (1950)	199
C_3DN^{15}	Cyanoacetylene-d_1 (isotopic)	-	-	Mol const, Inertia	Westenberg	JACS	72 (1950)	199
$C_3D_2Cl_6O_2$	$\alpha,\alpha,\alpha,\alpha',\alpha',\alpha'$- Hexachloro-acetone hydrate-d_2	600-3000	S	Freq, Spec	Anderson	SA	12 (1958)	233
$C_3D_3Cl^{35}$	Methylchloroacetylene-d_3 (isotopic)	-	-	Microwave	Costain	JCP	23 (1955)	2037
$C_3D_3Cl^{37}$	Methylchloroacetylene-d_3 (isotopic)	-	-	Microwave	Costain	JCP	23 (1955)	2037
$C^{13}C_2D_3Cl^{35}$	Methylchloroacetylene-d_3 (isotopic)	-	-	Microwave	Costain	JCP	23 (1955)	2037
$CC^{13}CD_3Cl^{35}$	Methylchloroacetylene-d_3 (isotopic)	-	-	Microwave	Costain	JCP	23 (1955)	2037
$C_3D_3N_3O_3$	Cyanuric acid-d_3	500-3600	S	Spec, Assign, Polarization	Newman	JACS	74 (1952)	3545
C_3D_4	Allene-d_4	250-5000	G	Vib anal, Spec	Lord	JCP	20 (1952)	1237
		-	-	Microwave absorption	Mizushima	BAPS	27 (1952)	11A
		1895-1940	G	Spec, Band freq	Overend	JOSA	43 (1953)	1065
		590-3000	G	Spec, Vib assign, Table	Overend	TFS	52 (1956)	1295
		25-35μ	G	Struct, Mol const	Rao	JMS	1 (1957)	24
		-	-	Bond dist, Bond angle	Overend	JCP	29 (1958)	1002
C_3D_4	Propyne-d_4	300-3500	G	Spec, Freq assign	Christensen	TFS	52 (1956)	1439
$C_3D_4Cl_2$	1,2-Dichloro-1-propene-d_4	400-1200	G,L	Spec	Bernstein	JACS	73 (1951)	1843
C_3D_6	Cyclopropane-d_6	350-3700	G,L	IR, Assign	Baker	JCP	23 (1955)	1636
		3-5μ	-	Struct	Lord	AC	27 (1955)	327
		2290-2380	G	Resolution	Lord	JOSA	45 (1955)	441
C_3D_6	Propylene-d_6	2-16μ	G	Spec, Table	Thompson	JPC	56 (1952)	243

		400-2400	G	Spec, Table, Assign, I	Lord	JOSA 43 (1953) 1079
$C_3D_6N_6$	Malamine-d_6	450-5000	S	Struct, Freq assign	Jones	TFS 55 (1959)A 203
C_3D_6O	Acetone-d_6	-	-	Vib anal	Rank	AC 23 (1951) 1048
		-	Sol	Table, I, Freq	Shiner	JACS 74 (1952) 5285
$C_3D_6O_2$	Methyl acetate-d_6	700-4000	Sol	Group freq, Spec, Assign	Nolin	CJC 34 (1956) 1382
C_3D_8	Propane-d_8	2-15μ	G	Spec, Assign	Mcmurry	JCP 19 (1951) 1014
		2-16μ	G	Spec, Table	Thompson	JPC 56 (1952) 243
C_3D_9IOS	Dimethylsulfoxide methiodide-d_9	650-4000	S	Assign, Spec	Cotton	JPC 64 (1960) 1534
C_3D_9B	Trimethylborane-d_9	2-15μ	G	Freq, Assign	Lehmann	JCP 31 (1959) 1071
C_3BrF_7	1-Bromoheptafluoropropane	-	-	Ident	Haszeldine	JCS - (1952) 4259
		2-16μ	G	Spec	Hauptschein	JACS 74 (1952) 1347
		-	-	Ident	Haszeldine	JCS - (1953) 3559
		-	-	Ident, Band freq	Husted	JACS 76 (1954) 5141
$C_3Br_2F_6$	1,2-Dibromohexafluoro-propane	-	-	Ident	Haszeldine	JCS - (1952) 4259
		4.12-14.14μ	-	I, Table, Ident	Haszeldine	JCS - (1953) 3559
$C_3Br_2F_6$	1,3-Dibromohexafluoro-propane	2-16μ	G	Spec	Hauptschein	JACS 74 (1952) 848
C_3ClF_5O	Pentafluoropropionyl chloride	-	-	Bond freq	Haszeldine	JCS - (1953) 1548
		2-15μ	G	Spec	Husted	JACS 75 (1953) 1605
C_3ClF_6I	1-Chlorohexafluoro-1-iodopropane	-	-	Ident	Haszeldine	JCS - (1953) 1592
C_3ClF_7	1-Chloroheptafluoropropane	2-16μ	G	Spec	Hauptschein	JACS 74 (1952) 1347
		-	-	Ident	Haszeldine	JCS - (1953) 1592
$C_3Cl_2F_6$	1,1-Dichlorohexafluoro-propane	-	-	Band study	Haszeldine	JCS - (1953) 1592
$C_3Cl_2F_6$	1,2-Dichlorohexafluoro-propane	9-15μ	-	Spec	Young	JACS 70 (1948) 2814
		8-15μ	G	Spec	Lacher	JACS 71 (1949) 1334
		-	-	Band freq	Haszeldine	JCS - (1953) 1592
$C_3Cl_2F_6$	1,3-Dichlorohexafluoropropane	9-15μ	-	Spec	Young	JACS 70 (1948) 2814

		2-15μ	G	Spec	Hauptschein	JACS	74	(1952)	848
$C_3Cl_2F_9AS$	Tris-(trifluoromethyl)-dichloroarsine	-	G,S	Group freq	Emeleus	JCS	-	(1953)	1552
$C_3Cl_3N_3$	Cyanuric chloride	2-14μ	Sol	Spec	Goubeau	JPC	58	(1954)	1078
		2-16μ	S	Spec, Struct	Padgett	JACS	80	(1958)	803
		2-15μ	Sol	Vib assign	Reimschuessel	JACS	82	(1960)	3756
C_3Cl_6O	Hexachloroacetone	-	L,G,S, Sol	Freq, Dipole effect	Bellamy	JCS	-	(1957)	4294
$C_3Cl_6O_3$	Bis-(trichloromethyl)-carbonate	-	Sol	Freq, Struct, Dissociation	Hales	JCS	-	(1957)	618
C_3F_5N	Pentafluoroethyl cyanide	-	-	Bond freq	Haszeldine	JCS	-	(1953)	1548
		4-4.5μ	G	Freq	Barr	JCS	-	(1957)	3428
C_3F_6	Hexafluorocyclopropane	-	-	Ident, Group freq	Haszeldine	JCS	-	(1953)	3761
C_3F_6	Hexafluoropropene	2-15μ	-	IR, Table, Vib	Edgell	JACS	70	(1948)	2816
		3-15μ	-	Spec	Young	JACS	70	(1948)	2814
		8-15μ	G	Spec	Lacher	JACS	71	(1949)	1334
		-	-	Spec	Hals	JACS	73	(1951)	4054
		-	-	Ident	Haszeldine	JCS	-	(1952)	4259
		-	-	Bond freq	Haszeldine	JCS	-	(1952)	4423
		2-38μ	L,G	IR, Assign	Nielsen	JCP	20	(1952)	1916
		-	-	Anal	Haszeldine	JCS	-	(1953)	1592
		-	-	Ident	Haszeldine	JCS	-	(1953)	2075
		-	-	Purity, Photo chim react	Haszeldine	JCS	-	(1953)	3559
		-	-	Ident	Haszeldine	JCS	-	(1953)	3607
		-	-	Ident, Group freq	Haszeldine	JCS	-	(1953)	3761
		-	-	Group freq	Lazerte	JACS	75	(1953)	4525
		-	-	Anal	Husted	JACS	76	(1954)	5141
		-	-	Freq, Shift	Bellamy	JCS	-	(1958)	2463
$C_3F_6I_2$	1,1-Diiodohexafluoropropane	2-16μ	L	Spec	Hauptschein	JACS	73	(1951)	2461
C_3F_6NP	Cyanobis-(trifluoromethyl)-phosphine	4.4-14.0μ	G	Table	Bennett	JCS	-	(1953)	1565
		-	-	Ident	Bennett	JCS	-	(1954)	3896
C_3F_6NSAs	Bis-(trifluoromethyl)-thiocyanoarsine	-	G,S	Group freq	Emeleus	JCS	-	(1953)	1552

C_3F_6NAs	Bis-(trifluoromethyl)-cyanoarsine	-	G,S	Group freq	Emeleus	JCS	- (1953) 1552
C_3F_6O	Hexafluoroacetone	-	-	Ident	Brice	JACS	75 (1953) 2698
		-	G	Carbonyl freq	Bellamy	JCS	- (1957) 4294
C_3F_6O	Pentafluoropropionyl fluoride	-	-	Reactant	Francis	JCS	- (1955) 2151
C_3F_7I	Heptafluoro-1-iodopropane	2-16μ	L	Spec	Hauptschein	JACS	73 (1951) 2461
		-	-	Ident	Husted	JACS	76 (1954) 5141
		-	-	Anal	Pierce	JACS	76 (1954) 474
C_3F_7NO	Heptafluoronitrosopropane	-	-	Bond freq	Barr	JCS	- (1955) 1881
		-	G	Vib assign	Haszeldine	JCS	- (1955) 4172
C_3F_7NO	Perfluoro-2-methyl-1,2-oxazetidine	-	-	Band freq	Barr	JCS	- (1955) 1881
C_3F_8	Octafluoropropane	2-25μ	G	Spec, Table	Edgell	JACS	72 (1950) 4856
		-	-	Component of mixture	Ayscough	JCS	- (1954) 3381
C_3F_9OP	Tris-(trifluoromethyl)-phosphine oxide	-	-	Bond freq	Barr	JCS	- (1955) 1881
		-	-	Group freq	Emeleus	JCS	- (1955) 563
		-	-	Group freq	Paul	JCS	- (1955) 574
C_3F_9P	Tris-(trifluoromethyl)-phosphine	4.09-13.73μ	G	Table	Bennett	JCS	- (1953) 1565
		-	-	Ident	Bennett	JCS	- (1954) 3896
$C_3F_9PS_3$	Tris-(trifluoromethylthio)-phosphine	400-4000	G	Freq, Assign	Nabi	JCS	- (1959) 3439
C_3F_9AS	Tris-(trifluoromethyl)-arsine	-	G,L	Group freq	Emeleus	JCS	- (1953) 1552

C_4 COMPOUNDS

C_4HD_4N	sym-Pyrrole-d_4	750-1950	L	Spec, Assign	Lord	JCP	10 (1942) 328
		-	-	Vib anal	Halverson	RMP	19 (1947) 87
		-	-	Micro spec	Bak	JCP	24 (1956) 720
		400-4000	L,G	Spec, Rot band contours	Morcillo	ARS	56B (1960) 231

C_4HD_9	Isobutane-d_9	3-35	G	Spec, Assign	Wilmshurst	CJC	35 (1957)	969
$C_4HBrClF_5$	4-Bromo-3-chloro-1,1,3,4,4-pentafluoro-1-butene	-	-	C=C freq	Tarrant	JACS	77 (1955)	3640
$C_4HBrCl_2F_6$	1-Bromo-2,4-dichloro-1,1,2,3,3,4-hexafluorobutane	-	-	Comparison	Haszeldine	JCS	- (1954)	3747
C_4HBrF_7NO	N-Bromo-2,2,3,3,4,4,4-heptafluorobutramide	-	-	Absorption coeff	Bak	JACS	76 (1954)	1388
C_4HBrF_8	1-Bromo-1,1,2,2,3,3,4,4-octafluorobutane	3.36-14.33	G	Table, I	Haszeldine	JCS	- (1954)	3747
C_4HClF_4	1-Chloro-1,3,4,4-tetrafluoro-1,3-butadiene	-	-	Freq	Tarrant	JACS	77 (1955)	3640
C_4HClF_6	2-Chloro-1,1,1,4,4,4-hexafluoro-2-butene	-	-	Freq	Haszeldine	JCS	- (1954)	1261
C_4HClF_6	4-Chloro-1,1,2,3,3,4-hexafluoro-1-butene	3.35-12.8	G	Table, I	Haszeldine	JCS	- (1954)	3747
$C_4HCl_3F_4$	1,3,4-Trichloro-1,3,4,4-tetrafluoro-1-butene	-	-	Freq	Tarrant	JACS	77 (1955)	3640
$C_4HCl_3N_2$	2,4,6-Trichloropyrimidine	2-25	S	Spec, Group freq	Short	JCS	- (1952)	168
$C_4HCl_5F_4O$	1,3-Dichloro-1,1,3,3-tetrafluoroacetone	-	-	I	Kagarise	JCP	27 (1957)	827
$C_4HCl_7F_2O$	1,1,3,3-Tetrachloro-1,3-difluoroacetone chloroform adduct	-	-	I	Kagarise	JCP	27 (1957)	827
C_4HF_5	1,1,3,4,4-Pentafluoro-1,3-butadiene	-	-	C=C freq	Tarrant	JACS	76 (1954)	3640

C_4HF_5	3,3,4,4,4-Pentafluoro-butyne	2-15.5μ	G	Spec, C=C freq	Haszeldine	JCS	-	(1952)	3483
		-	-	C=C freq	Haszeldine	JCS	-	(1954)	1261
C_4HF_5	1H-Pentafluorocyclobutene	1500-1800	G	Stretch freq	Burdon	SA	12	(1958)	139
C_4HF_6I	2-Iodo-1,1,1,4,4,4-hexa-fluoro-2-butene	-	-	Group freq	Leedham	JCS	-	(1954)	1634
C_4HF_6I	3-Iodo-1,1,1,4,4,4-hexafluoro-2-butene	-	-	C=C freq	Haszeldine	JCS	-	(1954)	1261
C_4HF_6I	trans-1,1,1,4,4,4-Hexafluoro-3-iodo-2-butene	-	-	Bond freq	Haszeldine	JCS	-	(1954)	1261
C_4HF_7O	Perfluorobutyraldehyde	2-15μ	G	Spec, Group freq	Husted	JACS	74	(1952)	5422
$C_4HF_7O_2$	Heptafluorobutanoic acid	1200-2000	Sol	C=O freq	Bender	JACS	75	(1953)	5986
		-	-	C=O freq	Haszeldine	JCS	-	(1954)	4026
		-	Sol	H bond	Lawson	PR	95	(1954)	300
		5.5-6.5μ	Sol	C=O band, Ident	Sawicki	AC	31	(1959)	523
C_4HF_9	1-Hydroperfluorobutane	-	-	CH freq, Pyrolysis study	Lazerte	JACS	75	(1953)	4525
C_4H_2	Diacetylene	-	-	Vib assign	Woo	JCP	3	(1935)	541
		-	-	Quant mech	Glockler	JCP	5	(1937)	813
		-	-	Vib assign	Woo	JCP	5	(1937)	786
		-	-	Quant mech	Meister	JCP	15	(1947)	349
		-	-	Force field bond inter-action	Linnett	TFS	45	(1949)	844
		-	L	IR, Assign	Ferigle	PR	81	(1951)	302
		500-4000	G	Vib anal	Jones	AC	23	(1951)	1048
		-	-	FC	Torkington	PRS	206	(1951)	17
		-	-	Pot const	Ferigle	JCP	20	(1952)	526
		-	-	Thermo	Ferigle	JCP	20	(1952)	1657
		-	-	Bending freq	Ferigle	JCP	20	(1952)	1928
		-	G	Mol spec, Mol const, Struct	Herzberg	N	169	(1952)	997
		1.2-.7μ	G	Mol spec, Bond dist	Jones	JCP	20	(1952)	860
		500-5000	G,L	IR, Spec, FC	Jones	PRS	211	(1952)	285
		-	-	FC, Bond dist, Mol orbitals	Longuet	TFS	48	(1952)	1077
		-	G	Mol spec, FC	Craine	TFS	49	(1953)	1273
		-	-	FC	Ferigle	JCP	21	(1953)	722
		-	-	Vib interaction theory	Torkington	JCP	21	(1953)	83

$C_4H_2D_2O_4$	Maleic acid-d_2	-	S	Spec, H bond	Cardwell	JCS	-	(1953)	3740
$C_4H_2D_4O$	$\alpha,\alpha,\alpha',\alpha'$-Cyclobutanone-$d_4$	300-7000	G,L	Spec, NCA, Assign	Frei	JMS	5	(1960)	218
$C_4H_2D_4O_4$	Succinic acid-d_4	500-3500	S	Freq, Assign	Shimanouchi	SA	16	(1960)	1328
$C_4H_2D_6O_2$	Ethyl acetate-d_6	700-4000	Sol	Spec, Freq	Nolin	CJC	34	(1956)	1392
$C_4H_2BrClF_4$	4-Bromo-3-chloro-1,3,4,4-tetrafluoro-1-butene	-	-	C=C freq	Tarrant	JACS	77	(1955)	3640
$C_4H_2BrClO_3$	α-Bromo-β-chloro-β-formylacrylic acid	760-3330	-	Spec	Kuh	JACS	75	(1953)	4597
$C_4H_2BrClO_3$	β-Bromo-α-chloro-β-formylacrylic acid	750-3330	-	Spec	Kuh	JACS	75	(1953)	4597
$C_4H_2BrF_7$	4-Bromo-1,1,1,2,2,3,3-heptafluorobutane	-	L	Group freq,	Tiers	JACS	75	(1953)	5978
$C_4H_2Br_2O_3$	Mucobromic acid	750-3300	-	Spec	Kuh	JACS	75	(1953)	4597
$C_4H_2ClF_7$	4-Chloro-1,1,1,2,2,3,3-heptafluorobutane	-	L	Freq	Tiers	JACS	75	(1953)	5978
$C_4H_2ClN_5S$	3,4-(5,6-2-Chloro-4-iminopyrimido)-1,2,5-thiadiazole	700-1930	S	Spec, Freq	Schrage	JOC	16	(1951)	207
$C_4H_2Cl_2N_2$	2,4-Dichloropyrimidine	2-25μ	S	Spec, Freq	Short	JCS	-	(1952)	168
$C_4H_2Cl_2O_3$	Mucochloric acid	2-13μ	Sol	Spec	Wasserman	JACS	74	(1952)	326
		750-3330	-	Spec	Kuhn	JACS	75	(1953)	4597
$C_4H_2Cl_8O$	1,1,1,3,3,4,4,4-Octachloro-2-butanol	-	S,Sol	Spec, OH freq, H bond	Haszeldine	JCS	-	(1953)	1757
$C_4H_2F_4$	1,3,4,4-Tetrafluoro-1,3-butadiene	-	-	C=C freq	Tarrant	JACS	77	(1955)	3640
$C_4H_2F_4$	1H,2H-Tetrafluorocyclobutene	1500-1800	G	Stretch freq	Burdon	SA	12	(1958)	139

$C_4H_2F_4O_4$	Perfluorosuccinic acid	-	-	C=O freq	Haszeldine	JCS	-	(1954)	4026
$C_4H_2F_6$	cis-1,1,1,4,4,4-Hexafluoro-2-butene	-	-	Absorption freq, Struct anal	Henne	JACS	71	(1949)	298
		1500-1800	G	Stretch freq	Burdon	SA	12	(1958)	139
$C_4H_2F_6$	trans-1,1,1,4,4,4-Hexafluoro-2-butene	2-16μ	G	Spec	Henne	JACS	73	(1951)	5527
		2-15.5μ	G	Spec, Stretch freq	Haszeldine	JCS	-	(1952)	2504
		-	-	Ident	Leedham	JCS	-	(1954)	1634
$C_4H_2F_6O$	1,1,1,4,4,4-Hexafluorobutanone	-	-	Ident	Haszeldine	JCS	-	(1954)	1273
$C_4H_2F_6O_2$	2,2,3,4,4,4-Hexafluorobutanoic acid	-	-	Ident	Lazerte	JACS	77	(1955)	910
$C_4H_2F_7I$	1,1,1,2,2,3,3-Heptafluoro-4-iodobutane	-	L	$-CF_3$ freq, Phys prop	Tiers	JACS	75	(1953)	5978
$C_4H_2F_7NO_2$	N-Heptafluoropropylcarbamic acid	3-6μ	S	Freq, Assign	Barr	JCS	-	(1956)	28
$C_4H_2N_2$	Fumaronitrile	-	-	C=N freq	Kitson	AC	24	(1952)	334
		-	Sol	I	Felton	JCS	-	(1955)	2170
$C_4H_2N_2$	Maleidinitrile	-	Sol	I	Felton	JCS	-	(1955)	2170
$C_4H_2N_2$	Vinylidene cyanide	-	L	IR freq	Dannis	JCP	19	(1951)	382
		-	-	FC	Torkington	PRS	206	(1951)	17
		-	Sol	Absorption group freq, Spec	Potts	SA	15	(1959)	679
$C_4H_2N_2O_4 \cdot H_2O$	Alloxan hydrate	2-15μ	S	Spec, Struct, Freq	Tipson	JOC	16	(1951)	1091
		-	-	Spec, Freq	Witkop	JACS	76	(1954)	5813
$C_4H_2O_3$	Maleic anhydride	1050-2000	-	Spec, Absorption freq	Barnes	IEC	15	(1943)	659
		1750-1850	Sol	Doublet coupling, Freq assign	Dauben	JOC	24	(1959)	1595
$C_4H_2O_4$	Acetylenedicarboxylic	700-1500	S	Spec, Assign	Hadzi	PRS	216	(1953)	247
		-	S	Group freq, I	Allan	JCS	-	(1955)	1874
$C_4H_3D_2Cl_3O \cdot H_2O$	, ', -Trichlorobutyraldehyde hydrate-d_2	600-3000	S	FC	Anderson	SA	12	(1958)	233

$C_4H_3D_5O_2$	Ethyl acetate-d_5	700-4000	Sol	Spec, Freq	Nolin	CJC	34	(1956)	1392
$C_4H_3BrClF_3$	4-Bromo-3-chloro-3,4,4-trifluoro-1-butene	-	-	CH_2 freq	Tarrant	JACS	77	(1955)	3640
C_4H_3BrS	2-Bromothiophene	3500-400	L	Table freq	Hidalgo	CPR	239	(1954)	253
		800-2000	L	Position & I of bands	Katritzky	JCS	-	(1959)	3500
$C_4H_3Br_2F_3$	2,3-Dibromo-1,1,1-trifluoro-2-butene	-	-	Group freq	Haszeldine	JCS	-	(1954)	1261
$C_4H_3Br_2F_3$	2,3-Dibromo-4,4,4-trifluoro-1-butene	-	-	Group freq	Haszeldine	JCS	-	(1954)	1261
$C_4H_3ClN_2$	2-Chloropyrimidine	2-25μ	S	Spec, Group freq	Short	JCS	-	(1952)	168
$C_4H_3ClN_2O_2$	5-Chlorouracil	2-12μ	Sol	Spec, Group freq, Assign	Lacher	JPC	59	(1955)	615
$C_4H_3ClO_4$	Mucoxychloric acid	2-13μ	S,Sol	Spec, Taut	Wasserman	JACS	74	(1952)	326
C_4H_3ClS	2-Chlorothiophene	3500-400	L	Table freq	Hidalgo	CPR	239	(1954)	253
		800-2000	L	Position & I of bands	Katritzky	JCS	-	(1959)	3500
$C_4H_3Cl_2F_3O$	1-Methoxy-1,2-dichloro-3,3,3-trifluoro-1-propene	2-15μ	G	Spec, Phy prop, Struct	Park	JACS	74	(1952)	4104
$C_4H_3Cl_2N_3$	2-Amino-4,6-dichloro-pyrimidine	2-25μ	S	Spec, Group freq	Short	JCS	-	(1952)	168
$C_4H_3Cl_2N_3$	4-Amino-2,6-dichloro-pyrimidine	2-25μ	S	Spec, Group freq	Short	JCS	-	(1952)	168
$C_4H_3Cl_2N_3$	2-Methyl-4,6-dichloro-S-triazine	2-15μ	Sol	Vib assign	Reimschuessel	JACS	82	(1960)	3756
$C_4H_3F_2Cl_5Si$	2,2-Dichloro-3,3-difluoro-cyclobutyltrichlorosilane	10.85-11.1μ	-	Freq	Park	JOC	25	(1960)	1628
$C_4H_3F_3$	1,1,1-Trifluoro-2,3-butadiene	-	-	Ident	Haszeldine	JCS	-	(1954)	1261
		-	-	Group freq	Haszeldine	JCS	-	(1954)	2040
$C_4H_3F_3$	3,4,4-Trifluoro-1,3-butadiene	-	-	C=C freq	Tarrant	JACS	77	(1955)	3640

$C_4H_3F_3$	1,1,1-Trifluoro-2-butyne	-	G	Micro spec	Bak	JCP	21 (1953) 1612
		-	-	C=C freq	Haszeldine	JCS	- (1954) 1261
		-	-	Micro spec, Internal rotation	Lide	JCP	23 (1955) 2191
$C_4H_3F_3$	3,3,3-Trifluoro-1-butyne	-	-	Struct parameters	Bak	JCP	26 (1957) 241
$C_4H_3F_3$	4,4,4-Trifluoro-1-butyne	-	-	C=C freq	Haszeldine	JCS	- (1954) 1261
		-	-	Ident, Group freq	Haszeldine	JCS	- (1954) 2040
$C_4H_3F_3O_2$	4,4,4-Trifluoro-trans-2-butenoic acid	-	-	C=C freq	Haszeldine	JCS	- (1952) 2504
$C_4H_3F_3O_3$	Acetyl trifluoroacetate	1000-1250	Sol	Band freq, Ident	Bourue	JCS	- (1954) 2006
$C_4H_3F_4Cl_3Si$	2,2,3,3-Tetrafluoro-cyclobutyltrichloro-silane	10.85-11.1μ	-	Freq	Park	JOC	25 (1960) 1628
$C_4H_3F_5$	1,1,3,3,3-Pentafluoro-2-methylpropene	-	-	Group freq	Haszeldine	JCS	- (1953) 3565
$C_4H_3F_5O$	3,3,4,4,4-Pentafluoro-butanone-2	2-15.5μ	G	Spec, Group freq	Haszeldine	JCS	- (1952) 3483
		650-5000	Sol	Stretching freq	Griffin	SA	16 (1960) 1464
$C_4H_3F_5O_2$	Methyl pentafluoro-propionate	-	-	C=O Freq	Haszeldine	JCS	- (1953) 1548
		2-15μ	G	Spec	Husted	JACS	75 (1953) 1605
$C_4H_3F_6I$	1,1,1,4,4,4-Hexafluoro-2-iodobutane	2-15μ	L	Spec	Haszeldine	JCS	- (1952) 2504
$C_4H_3F_7O$	2,2,3,3,4,4,4-Heptafluoro-butanol	-	Sol	OH freq, H bond	Haszeldine	JCS	- (1953) 1757
		-	L	Group freq, I	Henne	JACS	75 (1953) 991
$C_4H_3F_7O_2$	1,1-Dihydroxy-2,2,3,3,4,4,4-heptafluorobutane	2-14.7μ	S	Spec, Group freq	Husted	JACS	74 (1952) 5422
C_4H_3N	Methylcyanoacetylene	-	G	Spec, Mol const	Shridan	N	174 (1954) 798
$C_4H_3NO_2S$	2-Nitrothiophene	100-800	-	Spec, Order vs vib study	Hallam	N	174 (1954) 134
		800-2000	L	Position & I of bands	Katritzky	JCS	- (1959) 3500
$C_4H_3NO_3$	5-Nitrofuran	2-22μ	S	Spec, Correlation, Assign	Daasch	CIL	- (1958) 1113
$C_4H_3N_3O_3Si$	Methyltriisocyanatosilane	-	-	Freq, Assign	Widmaier	ZAUA	300 (1959) 194

$C_4H_3N_3O_4$	2,4-Dihydroxy-5-nitro-pyrimidine	2-25μ	S	Spec, Group freq	Short	JCS	-	(1952)	168
$C_4H_3N_3O_4S$	2,4-Dinitro-5-amino-thiophene	2-16μ	S	Spec, C=N freq, Taut	Hurd	JACS	74	(1952)	2965
$C_4H_3O_4$	Hydrogenmaleate ion	5000-1575	L	H bond, O-H stretching bond	Gill	N	183	(1959)	248
C_4H_4	Butatriene	-	-	FC, Bond dist, Mol orbitals	Longuet	TFS	48	(1952)	1077
		1050-3000	G	Freq, I	Schubert	JACS	74	(1952)	569
		-	G	Band freq	Schubert	JACS	76	(1954)	1929
C_4H_4	1-Butene-3-yne	-	-	Spec, Group study	Petrov	ZOK	27	(1957)	1167
		-	Sol	Group freq, Spec	Potts	SA	15	(1959)	679
C_4H_4	Vinylacetylene	2-15μ	G	Spec	Brady	IEC	16	(1944)	422
		-	-	Assign	Sheppard	JCP	17	(1949)	74
		-	-	Assign, Thermo	Stamm	JCP	17	(1949)	104
		-	-	Bending freq	Ferigle	JCP	20	(1952)	1928
		-	-	Group freq	Bergmann	JAPC	3	(1953)	97
		630-3325	G	Table, Spec, Group freq, Assign	Georgieff	JACS	76	(1954)	5494
C_4H_4DN	2-Pyrrole-d_1	-	-	Micro spec	Bak	JCP	24	(1956)	720
C_4H_4DN	3-Pyrrole-d_1	-	-	Micro spec	Bak	JCP	24	(1956)	720
C_4H_4DN	Pyrrole-N-d_1	750-1950	L	Spec, Assign	Lord	JCP	10	(1942)	328
		-	Sol	Vib anal	Halverson	RMP	19	(1947)	87
		-	Sol	Freq shift	Tuomikoski	JCP	20	(1952)	1054
		-	-	Micro spec	Bak	JCP	24	(1956)	720
		400-4000	L,G	Spec	Morcillo	ARS	56B	(1960)	231
$C_4H_4D_2N_2O_2$	Diketopiperazine-d_2	2000-2600	S	IR	Ambrose	PRS	206	(1951)	192
		1800-200	S	Freq, Spec	Miyazawa	JMS	4	(1960)	155
$C_4H_4D_2O_4$	Succinic acid-d_2	500-1500	S	Spec, Assign	Hadzi	PRS	216	(1953)	247
		500-3500	S	Freq, Assign	Shimanouchi	SA	16	(1960)	1328
$C_4H_4D_4O$	2,2,5,5-Tetrahydrofuran-d_4	350-3200	S,G,L	Spec, Freq	Palm	SA	16	(1960)	459

$C_4H_4D_4O$	2,3,4,5-Tetrahydrofuran-d_4	350-3200	S,G,L	Spec, Freq	Palm	SA	16 (1960)	459
$C_4H_4D_4O$	3,3,4,4-Tetrahydrofuran-d_4	350-3200	S,G,L	Spec, Freq	Palm	SA	16 (1960)	459
$C_4H_4BrNO_2$	N-Bromosuccinimide	-	S	Group freq	Ames	JCS	- (1955)	631
$C_4H_4Br_2$	1,4-Dibromo-2-butyne	-	-	Band freq, Ident	Schubert	JACS	76 (1954)	1929
$C_4H_4ClF_3$	3-Chloro-1,1,1-trifluoro-2-butene	-	-	Ident	Haszeldine	JCS	- (1954)	1261
C_4H_4ClN	α-Chloromethylacrylonitrile	-	-	Distinct from isomers	Ferris	JOC	19 (1954)	1971
C_4H_4ClN	cis-β-Chloro-α-methylacrylonitrile	-	-	Group freq	Ferris	JOC	19 (1954)	1971
C_4H_4ClN	trans-β-Chloro-α-methylacrylonitrile	-	-	Group freq	Ferris	JOC	19 (1954)	1971
$C_4H_4ClN_3$	2-Amino-4-chloropyrimidine	750-2000	-	Spec	Barnes	IEC	15 (1943)	659
$C_4H_4ClN_3$	2-Amino-6-chloropyrimidine	-	-	Effect of ring position	Stimson	AC	24 (1952)	1228
$C_4H_4ClN_3$	4-Amino-2-chloropyrimidine	2-25 μ	S	Spec, Group freq	Short	JCS	- (1952)	168
$C_4H_4ClN_3$	6-Amino-2-chloropyrimidine	-	-	Effect of ring position	Stimson	AC	24 (1952)	1228
$C_4H_4ClN_3O$	2-Amino-4-hydroxy-6-chloropyrimidine	2-25 μ	S	Spec, Group freq	Short	JCS	- (1952)	168
$C_4H_4Cl_2$	2,3-Dichloro-1,3-butadiene	700-1750	L,S	Spec, Struct	Szasz	TFS	49 (1953)	358
$C_4H_4Cl_2$	1,4-Dichloro-2-butyne	2-15 μ	L,Sol	Group freq	Kitson	AC	25 (1953)	1470
		-	Sol	Group freq, I	Allan	JCS	- (1955)	1874
$C_4H_4Cl_2O_2$	1,1-α-Dichlorovinyl acetate	-	Sol	Freq, Spec	Potts	SA	15 (1959)	671
$C_4H_4Cl_3F_3O$	α,α-Dichloroethyl α,α,β-trifluoro-β-chloroethyl ether	-	-	Spec	Park	JACS	74 (1952)	2292
$C_4H_4Cl_3O_4B$	Trichloroacetylethylene borate	6-14 μ	L,S	Group freq, Struct	Blau	JCS	- (1960)	380

$C_4H_4Cl_6O_2$	Di-1-hydroxy-2,2,2-trichloroethyl-1-peroxide	5-15μ	Sol	Spec, Peroxide bands	Minkoff	PRS	224	(1954)	176
$C_4H_4F_3I$	2-Iodo-4,4,4-trifluoro-1-butene	-	-	Group freq, Distinct from iso	Haszeldine	JCS	-	(1954)	2040
$C_4H_4F_3I$	3-Iodo-1,1,1-trifluoro-1-butene	-	-	Purity, Ident	Leedham	JCS	-	(1954)	1634
$C_4H_4F_3I$	3-Iodo-2-trifluoromethyl-1-propene	-	-	Group freq, Distinct	Haszeldine	JCS	-	(1954)	2040
$C_4H_4F_3O_4B$	Ethylenetrifluoroacetyl borate	4-16μ	L,S	Assign, Struct	Blau	JCS	-	(1960)	380
$C_4H_4F_6N_2O$	N-Nitroso-bis-2,2,2-trifluoroethylamine	-	G,L,Sol	Stretching vib assign	Haszeldine	JCS	-	(1955)	4172
$C_4H_4F_6N_2O_2$	N-Nitro-bis-2,2,2-trifluoroethylamine	-	L	NH stretching & deformation bands assign	Barr	JCS	-	(1955)	4169
$C_4H_4F_6O$	2,2,3,4,4,4-Hexafluoro-1-butanol	-	-	OH freq	Lazerte	JACS	77	(1955)	910
$C_4H_4N_2$	Pyrazine	1000-1900	-	Spec	Barnes	IEC	15	(1943)	659
		-	-	FC, Bond study	Anno	BCSJ	30	(1957)	638
		260-3800	G	Freq assign	Lord	SA	9	(1957)	113
		-	S	Spec	Yoshida	CPBT	7	(1959)	162
$C_4H_4N_2$	Pyridazine	900-1900	-	Spec	Barnes	IEC	15	(1943)	659
		3000-3800	Sol	Spec, H bond, Associ const	Brealey	JACS	77	(1955)	4462
		260-3800	L,Sol	Freq assign	Lord	SA	9	(1957)	113
$C_4H_4N_2$	Pyrimidine	750-2000	-	Spec	Barnes	IEC	15	(1943)	659
		-	L	Table, Band freq	Brownlie	JCS	-	(1950)	3062
		2-25μ	S	Spec, Group freq	Short	JCS	-	(1952)	168
		260-3800	L,Sol	Freq assign	Lord	SA	9	(1957)	113
		680-3800	Sol	Spec, Freq, Struct	Spinner	JCS	-	(1960)	1226
$C_4H_4N_2$	Succinonitrile	1-12μ	L	Spec	Bell	JACS	57	(1935)	1023
		-	-	FC	Linnett	TFS	41	(1945)	223

		-	-	C=N freq	Kitson	AC	24	(1952)	334
		-	Sol	C=N freq, I	Felton	JCS	-	(1955)	2170
		2-25μ	L,S	Spec, Rot iso	Janz	JCP	23	(1955)	1973
		600-4000	-	Spec	Webb	JACS	77	(1955)	3491
		-	-	I, C=N band, I	Thompson	TFS	52	(1956)	1451
		2-25μ	L	Spec, Assign, NCA, Temp effect	Fitzgerald	JMS	1	(1957)	49
		2200-2300	Sol	Freq, Struct	Jesson	SA	13	(1958)	2217
$C_4H_4N_2O$	2-Hydroxypyrazine	3650-1400	Sol	Spec, Assign, Taut, Freq	Mason	JCS	-	(1957)	4874
$C_4H_4N_2O$	3-Hydroxypyridazine	3650-1400	Sol	Spec, Assign, Taut, Freq	Mason	JCS	-	(1957)	4874
$C_4H_4N_2O$	4-Hydroxypyridazine	3650-1400	Sol	Spec, Assign, Taut, Freq	Mason	JCS	-	(1957)	4874
$C_4H_4N_2O$	2-Hydroxypyrimidine	2-25μ	S	Spec, Group freq	Short	JCS	-	(1952)	168
		1300-1800	S	Spec,	Brown	JCS	-	(1953)	331
		-	S	Band freq, I	Brown	JCS	-	(1955)	211
		3650-1400	Sol	Spec, Assign, Taut, Freq	Mason	JCS	-	(1957)	4874
		680-1800	Sol	Spec, Freq, Struct	Albert	JCS	-	(1960)	1221
		680-3800	S,Sol	Struct, Band peaks	Spinner	JCS	-	(1960)	1232
$C_4H_4N_2O$	4-Hydroxypyrimidine	2-25μ	S	Spec, Group freq	Short	JCS	-	(1952)	168
		1300-1800	S	Spec	Brown	JCS	-	(1953)	331
		-	S	Band freq, I	Brown	JCS	-	(1955)	211
		3650-1400	Sol	Spec, Assign, Taut, Freq	Mason	JCS	-	(1957)	4874
		680-1800	Sol	Spec, Freq, Assign, Struct	Albert	JCS	-	(1960)	1221
		680-3800	S,Sol	Struct, Band peaks	Spinner	JCS	-	(1960)	1232
		680-3800	S,Sol	Spec, Struct, Freq	Spinner	JCS	-	(1960)	1226
$C_4H_4N_2O$	5-Hydroxypyrimidine	3650-1400	Sol	Spec, Assign, Taut, Freq	Mason	JCS	-	(1957)	4874
$C_4H_4N_2O$	Imidazole-4-aldehyde	1570-3350	S	Spec	Turner	JACS	71	(1949)	3472
$C_4H_4N_2OS$	2-Mercapto-4-hydroxy-pyrimidine	2-25μ	S	Spec, Group freq	Short	JCS	-	(1952)	168
$C_4H_4N_2OS$	2-Thiouracil	2-12μ	Sol	Spec, Group freq, Assign	Lacher	JPC	59	(1955)	615
$C_4H_4N_2O_2$	2,4-Dihydroxypyrimidine	2-25μ	S	Spec, Group freq	Short	JCS	-	(1952)	168

$C_4H_4N_2O_2$	4,6-Dihydroxypyrimidine	2-25 μ	S	Spec, Group freq	Short	JCS	-	(1952)	168
$C_4H_4N_2O_2$	Uracil	2-25 μ	S	Spec	Bloat	JACS	72	(1950)	479
		-	S	Table, Band freq	Schwarz	APS	6	(1952)	15
		2.5-11.5 μ	Sol	Spec, Assign, Group freq	Lacher	JPC	59	(1955)	615
		3-9.9 μ	-	Struct	Uchricht	NWS	45	(1958)	416
$C_4H_4N_2O_2S$	5-Mercaptouracil	-	S	Band freq	Bardos	JACS	77	(1955)	960
$C_4H_4N_2O_3$	Barbituric acid	2-12 μ	Sol	Spec, Assign, Group freq	Lacher	JPC	59	(1955)	615
$C_4H_4N_2O_3$	2,4,6-Trihydroxy-pyrimidine	2-25 μ	S	Spec, Group freq	Short	JCS	-	(1952)	168
$C_4H_4N_2O_3$	4,5,6-Trihydroxy-pyrimidine	650-3600	S	CO & OH group presence, Struct	Tanner	SA	8	(1956)	9
$C_4H_4N_2O_3S$	2-Mercapto-4,5,6-trihydroxypyrimidine	650-3600	S	CO & OH group presence, Struct	Tanner	SA	8	(1956)	9
$C_4H_4N_2O_4 \cdot H_2O$	Dialuric acid, hydrate	2-16 μ	S	Spec, Struct, Band freq	Tipson	JOC	16	(1951)	1091
$C_4H_4N_2O_4$	N-Nitrosuccinimide	-	-	Band & group freq	Kauffman	JOC	19	(1954)	1662
$C_4H_4N_2O_6$	Alloxan hydroperoxide	-	-	O-H freq	Witkop	JACS	76	(1954)	5813
$C_4H_4N_2S$	2-Mercaptopyrazine	700-3800	S,Sol	Freq, Assign	Spinner	JCS	-	(1960)	1237
$C_4H_4N_2S$	2-Mercaptopyrimidine	2-25 μ	S	Spec, Group freq	Short	JCS	-	(1952)	168
		700-3800	S,Sol	Freq, Assign	Spinner	JCS	-	(1960)	1237
$C_4H_4N_2S$	4-Mercaptopyrimidine	700-3800	S,Sol	Freq, Assign	Spinner	JCS	-	(1960)	1237
$C_4H_4N_2S_2$	2,4-Dimercaptopyrimidine	2-25 μ	S	Spec, Group freq	Short	JCS	-	(1952)	168
$C_4H_4N_2S_2$	Gauche-1,2-Dithiocyanato-ethane	660-3140	S,Sol	Table, Assign, Group freq	Mizushima	JPC	59	(1955)	293
$C_4H_4N_2S_2$	trans-1,2-Dithiocyanato-ethane	660-3140	S,Sol	Table, Assign, Group freq	Mizushima	JPC	59	(1955)	293
$C_4H_4N_2S_2$	Ethylene thiocyanate	-	S,Sol	Iso	Quagliano	JACS	75	(1953)	6084

$C_4H_4N_4O_4$	Furoxandicarboxamide	-	S	Table, I, Group freq	Boyer	JACS	77	(1955)	4238
C_4H_4O	Furan	-	-	Quant mech	Mullikan	JCP	7	(1939)	339
		-	-	Mol anal	Pickett	JCP	8	(1940)	293
		2.5-20 μ	G	Spec, Assign	Pickett	JCP	10	(1942)	660
		710-890	-	Spec, Review	Thompson	JCS	-	(1944)	183
		3-20 μ	G	Spec, Freq, Assign	Thompson	TFS	41	(1945)	27
		-	G,L	Tables, IR, Assign, Thermo	Guthrie	JACS	74	(1952)	4662
		605-1596	G,L	Tables for struct	Cocker	JCS	-	(1953)	2540
		2-22 μ	S	Spec, Assign	Daasch	CIL	-	(1958)	1113
C_4H_4O	Vinyloxyethyne	-	-	Spec	Brandsma	RTC	79	(1960)	1307
C_4H_4OS	2-Thienol	2.5-12 μ	Sol	Spec	Hurd	JACS	72	(1950)	5543
$C_4H_4O_2$	Buta-2,3-dienoic acid	2-6 μ	-	Spec	Wotiz	JACS	73	(1951)	5503
		-	S	Absorption bands	Wotiz	JACS	74	(1952)	1860
		-	-	Band freq	Eglinton	JCS	-	(1954)	3197
$C_4H_4O_2$	$\Delta^{\alpha,\beta}$-Butenolide	1550-1850	Sol	Freq	Jones	CJC	37	(1959)	2007
$C_4H_4O_2$	2-Butynoic acid	2-6 μ	-	Spec	Wotiz	JACS	73	(1951)	5503
		-	Sol	Freq & peaks	Goulden	SA	6	(1954)	129
		-	Sol	Group freq, I	Allan	JCS	-	(1955)	1874
$C_4H_4O_2$	3-Butynoic acid	2-6 μ	S	Spec, H-C = bond freq	Wotiz	JACS	73	(1951)	5503
$C_4H_4O_2$	Diketene	3-15 μ	G	Spec, Table	Miller	JACS	70	(1948)	1890
		700-4000	S,L,G	Struct	Miller	JACS	79	(1957)	3995
$C_4H_4O_2$	Fumaric dialdehyde	2-16 μ	Sol	Spec, Stretch freq, Band freq	Hufford •	JACS	74	(1952)	3014
$C_4H_4O_2$	Methyl propynoate	-	Sol	Group freq, I	Allan	JCS	-	(1955)	1874
$C_4H_4O_3$	Succinic anhydride	-	-	Band freq	Lanning	JOC	19	(1954)	1171
		1600-1800	Sol	Freq	Hall	JACS	80	(1958)	6428
		1750-1850	Sol	Doublet from coupling, Assign	Dauben	JOC	24	(1959)	1595
$C_4H_4O_3$	Tetronic acid	-	S,Sol	Table, Band freq	Duncanson	JCS	-	(1953)	1207
$C_4H_4O_4$	Fumaric acid	-	-	Absorption freq	Barnes	IEC	15	(1943)	659
		700-4000	L,S	Table, Association	Flett	JCS	-	(1951)	962

		-	-	Ident	Hall	JCS	-	(1954)	2024
		-	S	C=O & C=C freq	Murray	JACS	76	(1954)	3665
		680-2500	-	Spec	Hadzi	NC	11	(1959)	715
$C_4H_4O_4$	Maleic acid	-	-	Absorption freq	Barnes	IEC	15	(1943)	659
		700-4000	L,S	Table, Association, C=O freq	Flett	JCS	-	(1951)	962
		-	-	H bond, Bond dist vs freq	Rundle	JCP	20	(1952)	1487
		1200-5000	S	Spec, H bond	Cardwell	JCS	-	(1953)	3740
		-	S	C=O & C=C freq	Murray	JACS	76	(1954)	3665
		-	-	H bond	Pimentel	JCP	24	(1956)	639
$C_4H_4O_4$	Oxalacetic acid (enol)	-	-	Ident of spec of high & low m.p. forms	Hartree	JACS	75	(1953)	6244
$C_4H_4O_6$	Dihydroxyfumaric acid	-	-	Group freq	Goodwin	JACS	76	(1954)	5599
$C_4H_4O_6$	Tartarate ion	16-15μ	-	Metallic tartates	Duval	JCP	18	(1950)	1117
C_4H_4S	Thiophene	-	-	C-H freq	Bonino	TFS	25	(1929)	876
		1-15μ	-	Spec	Barnes	JCP	3	(1935)	446
		-	-	Quant mech	Mulliken	JCP	7	(1939)	339
		1050-1850	-	Spec	Barnes	IEC	15	(1943)	659
		820-690	-	Spec, Review	Thompson	JCS	-	(1944)	183
		3-20μ	L,G	Spec, Freq, Assign	Thompson	TFS	41	(1945)	27
		-	-	Assign, Thermo	Waddington	JACS	71	(1949)	797
		-	-	Spec	Birch	JCS	-	(1951)	2556
		450-1590	-	Table, Assign	McCullough	JACS	75	(1953)	5075
		2-25μ	L,Sol	Spec, Phy prop	Haines	JPC	58	(1954)	270
		3500-400	L	Group freq	Hidalgo	CPR	239	(1954)	253
		-	-	Thiophenes in virgin petroleum	Thompson	AC	28	(1956)	1384
$C_4H_5DN_2OS$	1-Methyl-2-thiohydantoin-d_1	2500-800	S	Bands assign	Elmore	JCS	-	(1958)	3489
$C_4H_5DO_4$	Succinic acid-d_1	-	-	ν_{OH}, ν_{OD}	Bratoz	SA	8	(1956)	249
$C_4H_5D_3O_2$	Ethyl acetate-d_3	700-4000	Sol	Spec, Freq	Nolin	CJC	34	(1956)	1392
$C_4H_5D_3O_2$	Ethyl acetate-α-d_3	700-4000	Sol	Spec, Freq	Nolin	CJC	34	(1956)	1392

C_3H_5Br	1-Bromo-2-butyne	-	L	Group freq, I	Allan	JCS	-	(1955)	1874
$C_4H_5BrN_4$	4,6-Diamino-5-bromo-pyrimidine	2-25 μ	S	Spec, Group freq	Short	JCS	-	(1952)	168
C_4H_5BrO	2-Bromocyclobutanone	-	-	Purity	Ramirez	JACS	76	(1954)	491
C_4H_5Cl	2-Chloro-1,3-butadiene	5-20 μ	G,L	Spec, Assign	Thompson	PRS	184	(1945)	21
		-	-	Moment of inertia	Torkington	JCP	18	(1950)	407
		2-25 μ	L,Sol	Group freq	Kitson	AC	25	(1953)	1470
		700-1750	S,L	Spec, Struct	Szasz	TFS	49	(1953)	358
C_4H_5Cl	1-Chloro-2-butyne	-	Sol	Group freq, I	Allan	JCS	-	(1955)	1874
		-	-	C=C freq	Ettlinger	JACS	77	(1955)	1831
		20-30K Mc/sec	G	Spec, Struct, Mol const	Victor	JCP	31	(1959)	939
$C_4H_5ClF_2$	1-Chloro-1,1-difluoro 2-butene	-	-	C=C freq	Tarrant	JACS	77	(1955)	768
$C_4H_5ClF_2$	1-Chloro-1,1-difluoro-3-butene	-	-	C=C freq	Tarrant	JACS	77	(1955)	768
$C_4H_5ClF_2O_2$	Chlorodifluoroethyl acetate	-	L	C=O, C-O & C-Cl freq	Mcbee	JACS	77	(1955)	755
$C_4H_5ClO_2$	α-Chloromethylacrylic acid	-	-	C=O, C=C freq	Ferris	JOC	19	(1954)	1971
$C_4H_5ClO_2$	cis-β-Chloro-α-methyl-acrylic acid	-	-	C=O, C=C freq	Ferris	JOC	19	(1954)	1971
$C_4H_5ClO_2$	trans-β-Chloro-α-methyl-acrylic acid	-	-	C=O, C=C freq	Ferris	JOC	19	(1954)	1971
$C_4H_5ClO_2$	1-Chlorovinyl acetate	-	Sol	Freq, Spec	Potts	SA	15	(1959)	679
$C_4H_5ClO_3$	Allyl chlorocarbonate	-	S	Freq	Ory	SA	16	(1960)	1488
$C_4H_5ClO_3$	Ethyl chloroglyoxylate	1740-1800	L	Freq	Simon	JOC	23	(1958)	1078
$C_4H_5ClO_4$	dl-Chlorosuccinic acid	-	S	Group freq, Table	Duncanson	JCS	-	(1952)	1753
$C_4H_5Cl_2F_3O$	β-Chloroethyl α,α,β-trifluoro-β-chloroethyl ether	-	-	Spec	Park	JACS	74	(1952)	2292

$C_4H_5Cl_2N$	α,β-Dichloroisobutyronitrile	-	-	C=N freq, Ident, Struct	Ferris	JOC	19	(1954)	1971
$C_4H_5Cl_2O_4B$	Dichloroacetylethylene borate	6-14μ	L,S	Struct, Freq, Group position	Blau	JCS	-	(1960)	380
$C_4H_5Cl_3$	cis-1,2,3-Trichloro-2-butene	2-16μ	-	Spec	Hatch	JACS	73	(1951)	4393
$C_4H_5Cl_3$	trans-1,2,3-Trichloro-2-butene	2-16μ	-	Spec	Hatch	JACS	73	(1951)	4393
$C_4H_5Cl_3$	1,2,3-Trichloro-3-butene	2-16μ	-	Spec	Hatch	JACS	73	(1951)	4393
$C_4H_5Cl_3$	1,2,4-Trichloro-2-butene	2-15μ	L,Sol	Group freq	Kitson	AC	25	(1953)	1470
$C_4H_5Cl_3$	2,2,3-Trichloro-3-butene	2-16μ	-	Spec	Hatch	JACS	73	(1951)	4393
		2-15μ	L,Sol	Group freq	Kitson	AC	25	(1953)	1470
$C_4H_5Cl_3O.H_2O$	α,α',β-Trichlorobutyraldehyde hydrate	600-3000	S	Freq	Anderson	SA	12	(1958)	233
$C_4H_5Cl_3O_2$	1,3-Dichloroisopropyl chloroformate	-	Sol	Struct, Dissociation, Freq	Hales	JCS	-	(1957)	618
$C_4H_5Cl_3O_2$	Ethyl trichloroacetate	-	G	Freq C=O	Hartwell	JCS	-	(1948)	1436
		-	Sol	Absorption band freq	Hampton	AC	21	(1949)	914
		-	L	Table, Band & group freq	Flett	JCS	-	(1952)	3355
		1200-2000	Sol	C=O freq	Bender	JACS	75	(1953)	5986
		-	L	C=O, C-O freq	Mcbee	JACS	77	(1955)	755
$C_4H_5Cl_3O_3$	Ethyl trichloromethylcarbonate	-	L	Struct, Dissociation, Freq	Hales	JCS	-	(1957)	618
$C_4H_5Cl_5$	1,2,2,3,4-Pentachlorobutane	2-16μ	-	Spec	Hatch	JACS	73	(1951)	4393
$C_4H_5FO_3$	Methyl fluoropyruvate	-	Sol	C=O freq	Blank	JCS	-	(1955)	2190
$C_4H_5F_3$	1,1,1-Trifluorobutene-2	-	-	Ident, Group freq, Iso	Haszeldine	JCS	-	(1953)	1199
		-	-	C=C freq, I	Haszeldine	JCS	-	(1954)	1261
$C_4H_5F_3$	1,1,1-Trifluorobutene-3	-	-	Ident	Haszeldine	JCS	-	(1953)	1199

		-	-	Ident	Haszeldine	JCS	- (1954) 2040
$C_4H_5F_3O$	1,1,1-Trifluorobutan-2-one	-	-	C=O freq	Haszeldine	JCS	- (1954) 1261
$C_4H_5F_3O$	4,4,4-Trifluorobutan-2-one	-	-	C=O freq	Haszeldine	JCS	- (1954) 1261
$C_4H_5F_3O$	4,4,4-Trifluoro-2-butene-1-ol	-	-	OH & C=C freq	Mcbee	JACS	76 (1954) 3725
$C_4H_5F_3OS$	Ethylthiol trifluoroacetate	2-16μ	L	Spec, Band freq	Hauptschein	JACS	74 (1952) 4005
$C_4H_5F_3O_2$	Ethyl trifluoroacetate	1780-1011	G,L	Freq	Fuson	JCP	20 (1952) 1627
		1600-2000	Sol	Spec of C=O bond	Bender	JACS	75 (1953) 5986
		-	L	C=O, C-O freq	Mcbee	JACS	77 (1955) 755
		2-9μ	Sol	Spec, Freq, Reactivity	Jencks	ABB	88 (1960) 193
$C_4H_5F_3O_2$	γ,γ,γ-Trifluorobutyric acid	-	-	Ident	Haszeldine	JCS	- (1953) 1199
$C_4H_5F_6N$	bis-2,2,2-Trifluoroethylamine	-	G,L	NH stretching band assign	Barr	JCS	- (1955) 4169
C_4H_5I	1-Iodo-2-butyne	-	L	Group freq, I	Allan	JCS	- (1955) 1874
C_4H_5N	Allyl cyanide	1000-1950	-	Spec	Barnes	IEC	15 (1943) 659
		-	-	C=N freq	Kitson	AC	24 (1952) 334
		-	Sol	C=C & CH freq	Davison	JCS	- (1953) 2607
		-	Sol	C=N freq, I, Ext coeff	Skinner	JCS	- (1955) 487
		2200-2300	Sol	Freq & struct	Jesson	SA	13 (1958) 217
		-	Sol	Group freq, Spec	Potts	SA	15 (1959) 679
C_4H_5N	cis-Crotononitrile	1050-1800	-	Spec	Barnes	IEC	15 (1943) 659
		-	-	C=N freq	Kitson	AC	24 (1952) 334
		-	Sol	Shift, Mol struct	Felton	JCS	- (1955) 2170
C_4H_5N	trans-Crotononitrile	1050-1800	-	Spec	Barnes	IEC	15 (1943) 659
		-	-	C=N freq	Kitson	AC	24 (1952) 334
		-	Sol	C=N, C=C freq, I	Felton	JCS	- (1955) 2170
		13-36K Mc/sec	G	Spec, Mol const	Laurie	JCP	32 (1960) 1588
C_4H_5N	Crotononitrile	-	Sol	Absorption group freq, Spec	Potts	SA	15 (1959) 679
C_4H_5N	Cyclopropanecarbonitrile	2-14.5μ	L	Spec, Table, Band freq	Wiberley	AC	24 (1952) 623

		-	—	C=N freq	Hammond	JACS	76	(1954)	4081
		400-4000	L,G	Spec, Assign, NCA, Thermo	Daly	JMS	2	(1958)	177
		-	-	Micro spec, Mol const	Friend	JCP	29	(1958)	577
		2-25μ	-	NCA, Assign, Inertia	Daly	DA	19	(1959)	3145
C_4H_5N	α-Methylacrylonitrile	1200-1850	-	Spec	Barnes	IEC	15	(1943)	659
		-	-	C=N freq	Kitson	AC	24	(1952)	334
		-	Sol	C=C & CH freq	Davison	JCS	-	(1953)	2607
		2-15μ	L,Sol	Group freq	Kitson	AC	25	(1953)	1470
		-	Sol	C=N, C=C freq, I, Mol struct	Felton	JCS	-	(1955)	2170
		-	Sol	C=N freq, I, Ext coeff	Skinner	JCS	-	(1955)	487
		-	Sol	Absorption group freq, Spec	Potts	SA	15	(1959)	679
C_4H_5N	Pyrrole	6700-6950	L,Sol	NH band	Liddel	JACS	55	(1933)	3574
		6700-7000	Sol	Spec, OH & NH group anal	Wulf	JACS	57	(1935)	1464
		-	Sol	Struct, Spec	Pauling	JACS	58	(1936)	94
		-	-	Quant mech	Mulliken	JCP	7	(1939)	339
		-	-	Spec, Assign	Zumwalt	JCP	7	(1939)	629
		2.6-3.1μ	L,Sol	H bond	Gordy	JACS	62	(1940)	497
		750-1950	L	Spec, Assign	Lord	JCP	10	(1942)	328
		1050-1750	-	Spec	Barnes	IEC	15	(1943)	659
		-	-	Freq, Assign	Thompson	TFS	41	(1945)	27
		-	-	Mol anal	Halverson	RMP	19	(1947)	87
		-	L,Sol	Anal, Ext coeff	Densham	JCS	-	(1952)	2433
		3μ	L	NH band, H bond	Fuson	JCP	20	(1952)	145
		1-3.4μ	L,Sol	NH freq shift	Tuomikoski	JCP	20	(1952)	1054
		-	-	Struct, Micro spec	Wilcox	JCP	20	(1952)	1656
		-	G,L,Sol	Freq shift	Josien	JCP	22	(1954)	1169
		-	-	H bond	Tuomikoshi	JCP	22	(1954)	2096
		-	Sol	NH freq	Pozefsky	AC	27	(1955)	1466
		-	Sol	Band freq, I, Ext coeff	Russell	JCS	-	(1955)	483
		-	-	Micro spec	Bak	JCP	24	(1956)	720
		-	Sol	H bond	Josien	JCP	24	(1956)	1261
		-	Sol	Solvent effect on vib of NH bond	Mivone	GCI	86	(1956)	1079
		-	-	Stretch vib, Shift	Benson	JCP	27	(1957)	1164
		.7-2μ	L	Spec, Anal	Mitchell	AC	29	(1957)	499
		3000-3700	Sol	Freq	Soda	BCSJ	30	(1957)	499
		-	Sol	Shift & solvent, H bond	Bellamy	TFS	54	(1958)	1120
		400-1700	-	Freq line charts	Bohon	AC	30	(1958)	245
		4000-500	Sol	Spec, Freq, Vib assign	Eisner	JCS	-	(1958)	971

		2.22-19.71 μ	L	Phys. prop	Helm	JPC	62	(1958)	858
		2900-3100	Sol	Freq	Hill	JCS	-	(1958)	760
		400-4000	S,Sol	Spec, H bond, Symmetry	Mason	JCS	-	(1958)	976
		1600-4000	-	Substitution effect	Scrocco	AAN	24	(1958)	316
		3200-3800	Sol	Solvent effect on H bond	Bellamy	TFS	55	(1959)	220
		-	G	Spec anal, Mol const, Struct	Wilcox	DA	19	(1959)	2498
		400-4000	L,G	Spec, Rot band contours	Morcillo	ARS	56B	(1960)	231
C_4H_5NOS	4-Methyl-2-thiazolone	2-12 μ	Sol	Spec	Ettlinger	JACS	72	(1950)	4699
$C_4H_5NO_2$	Succinimide	-	-	FC	Linnett	TFS	41	(1945)	223
		3 μ	Sol	Pair of band, Iso	Russell	SA	8	(1956)	138
		1600-1800	Sol	Freq, Hybridization effect	Hall	JACS	80	(1958)	6428
$C_4H_5NO_3$	N-Hydroxysuccinimide	-	S	Group freq	Ames	JCS	-	(1955)	631
$C_4H_5NO_3$	3-Methyloxazolid-2,4-dione	650-4000	Sol	Spec	Pianka	JCS	-	(1960)	983
$C_4H_5NO_4$	cis-Nitrocyclopropane-carboxylic acid	-	-	Spec	Boer	RTC	79	(1960)	231
$C_4H_5NO_4$	trans-Nitrocyclopropane-carboxylic acid	-	-	Spec	Boer	RTC	79	(1960)	231
$C_4H_5NO_4$	trans-2-Nitrocyclopropane-carboxylic acid	-	-	Spec	Boer	RTC	79	(1960)	231
C_4H_5NS	Allyl isothiocyanate	2000-2300	Sol	Freq	Caldow	SA	13	(1958)	212
		600-2200	-	Freq for SCN, NCS	Lieber	SA	13	(1959)	296
		-	Sol	Group freq, Spec	Potts	SA	15	(1959)	679
		400-4000	L,G	Spec, Freq, Assign	Ham	SA	16	(1960)	279
C_4H_5NS	2-Methylthiazole	600-3600	L	Spec, Freq	Taurins	CJC	35	(1957)	423
C_4H_5NS	4-Methylthiazole	600-3600	L	Spec, Freq	Taurins	CJC	35	(1957)	423
C_4H_5NS	5-Methylthiazole	600-3600	L	Spec, Freq	Taurins	CJC	35	(1957)	423
$C_4H_5NS.HI$	Thiazine hydroiodide	600-4000	S	Freq, Assign	Stone	JCS	-	(1958)	52
$C_4H_5NS_2$	2-Mercapto-4-methyl-thiazole	2800-3500	S,Sol	Spec, Group freq, Struct	Flett	JCS	-	(1953)	347

$C_4H_5NS_2$	4-Methyl-2-thio-thiazolone	2-12μ	Sol	Spec	Ettlinger	JACS	72	(1950)	4699
$C_4H_5N_3$	2-Aminopyrazine	3μ	Sol	Freq, FC, N-H band	Mason	JCS	-	(1958)	3619
$C_4H_5N_3$	4-Aminopyridazine	3μ	Sol	Freq, FC, NH band	Mason	JCS	-	(1958)	3619
$C_4H_5N_3$	2-Aminopyrimidine	3-6μ	Sol	Spec, Table, Struct	Angyal	JCS	-	(1952)	2911
		-	Sol	Table, NH_2 freq, Struct	Goulden	JCS	-	(1952)	2939
		2-25μ	S	Spec, Group freq	Short	JCS	-	(1952)	4191
		-	Sol	Group study	Brown	JCS	-	(1953)	331
		3300-3500	Sol	Freq, FC	Short	JCS	-	(1956)	168
		3μ	Sol	Freq, FC, NH band dipole	Mason	JCS	-	(1958)	3619
$C_4H_5N_3$	4-Aminopyrimidine	-	Sol	Group study	Brown	JCS	-	(1953)	331
		3300-3500	Sol	Freq, FC	Short	JCS	-	(1956)	4191
		3μ	Sol	Freq, FC, NH band dipole	Mason	JCS	-	(1958)	3619
$C_4H_5N_3$	5-Aminopyrimidine	2-25μ	S	Spec, Group freq	Short	JCS	-	(1952)	168
		3300-3500	Sol	Freq, FC	Short	JCS	-	(1956)	4191
		3μ	Sol	Freq, FC, NH band dipole	Mason	JCS	-	(1958)	3619
$C_4H_5N_3O$	Cytosine	2-15μ	S	Spec	Bloat	JACS	72	(1950)	479
		-	S	I	Stimson	AC	23	(1951)	1050
		-	S	Table, Band freq	Schwarz	APS	6	(1952)	15
		2-15μ	S	Spec, Bands	Stimson	JACS	74	(1952)	1805
		-	-	Ident	Flynn	JACS	75	(1953)	5867
		2.5-11.5μ	Sol	Spec, Group freq	Lacher	JPC	59	(1955)	615
		3-9.9μ	-	Struct	Ulbricht	NWS	45	(1958)	416
$C_4H_5N_3O.H_2O$	Cytosine hydrate	2.5-15μ	S	Spec	Blout	JOSA	41	(1951)	547
		-	S	Sample preparation	Stimson	AC	23	(1951)	1050
$C_4H_5N_3O$	2-Hydroxy-4-amino-pyrimidine	2-25μ	S	Spec, Group freq	Short	JCS	-	(1952)	168
$C_4H_5N_3O$	4-Hydroxy-6-amino-pyrimidine	2-25μ	S	Spec, Group freq	Short	JCS	-	(1952)	168
$C_4H_5N_3O$	Isocytosine	2-15μ	S	Spec	Stimson	JACS	74	(1952)	1805
$C_4H_5N_3O$	Imidazole-4-aldehyde oxime	1570-3350	S	Spec	Turner	JACS	71	(1949)	3472

$C_4H_5N_3OS$	4-Amino-2-thiouracil	2-12μ	Sol	Spec, Group freq, Assign	Lacher	JPC	59 (1955)	615
$C_4H_5N_3OS$	2-Mercapto-4-hydroxy-6-aminopyrimidine	2-25μ	S	Spec, Group freq	Short	JCS	- (1952)	168
$C_4H_5N_3OS$	5-Nitroso-4,6-diamino-2-mercaptopyrimidine	2-15μ	S	Spec, Assign	Brownlie	JCS	- (1950)	3062
$C_4H_5N_3O_2$	2-Amino-4,5-dihydroxy-pyrimidine	650-3600	S	CO, OH group presence, Struct	Tanner	SA	8 (1956)	9
$C_4H_5N_3O_2$	2-Amino-4,6-dihydroxy-pyrimidine	2-25μ	S	Spec, Group freq	Short	JCS	- (1952)	168
		650-3600	S	CO, OH group presence, Struct	Tanner	SA	8 (1956)	9
$C_4H_5N_3O_2$	6-Amino-2,4-dihydroxy-pyrimidine	2-25μ	S	Spec, Group freq	Short	JCS	- (1952)	168
		1530-1727	S	Table, I, Ident	Barker	JCS	- (1954)	4206
$C_4H_5N_3O_2S$	5-Amino-4-mercapto-2,6-dihydroxypyrimidine	2-15μ	S	Spec, Assign	Brownlie	JCS	- (1950)	3062
$C_4H_5N_3O_3$	4-Amino-2,5,6-tri-hydroxypyrimidine	650-3600	S	OH bond, Struct	Tanner	SA	8 (1956)	9
$C_4H_5N_3O_3$	Uramil	9.5-13.5μ	S	Band freq	Schwarz	APS	6 (1952)	15
$C_4H_5N_3O_3 \cdot H_2O$	2-Amino-4,5,6 Trihydroxy-pyrimidine hydrate	650-3600	S	Struct	Tanner	SA	8 (1956)	9
$C_4H_5N_3S$	2-Mercapto-4-amino-pyrimidine	2-25μ	S	Spec, Group freq	Short	JCS	- (1952)	168
$C_4H_5N_3S$	Thiocytosine	2-12μ	Sol	Spec, Assign	Lacher	JPC	59 (1955)	615
C_4H_6	1,2-Butadiene	3.2-10μ	G	Mol struct	Yao	PR	68 (1945)	99
		2-15μ	G	Spec, Assign	Aston	JACS	69 (1947)	3108
		-	-	Thermo, IR	Rasmussen	JCP	15 (1947)	131
		-	-	Anal	Seyfried	IEC	19 (1947)	298
		-	-	Vib assign	Szasz	JACS	69 (1947)	3150
		-	-	Absorption freq	Johnston	AC	20 (1948)	805
		-	G	Thermo	Kilpatric	JRNB	42 (1949)	225
		-	-	Band freq	Haszeldine	JCS	- (1954)	2040
		16-33K MC/sec	G	Micro spec, Struct	Lide	JCP	27 (1957)	874

C_4H_6	cis-1,3-Butadiene	-	-	Quant mech	Mulliken	JCP	7	(1939)	1121
		-	-	Relative stability of iso	Rasmussen	JCP	11	(1943)	432
		-	-	Anal	Starr	AC	21	(1949)	572
		-	Sol	Group freq, Spec	Potts	SA	15	(1959)	679
		-	-	Spec, NCA	Sverdlov	OS	9	(1960)	304
C_4H_6	trans-1,3-Butadiene	-	-	Spec, NCA	Sverdlov	OS	9	(1960)	304
C_4H_6	1,3-Butadiene	-	-	Thermo	Kassel	JCP	4	(1936)	435
		-	-	Quant mech	Mulliken	JCP	7	(1939)	121
		750-1900	-	Spec, Anal	Barnes	IEC	15	(1943)	83
		800-1950	-	Absorption freq, Spec	Barnes	IEC	15	(1943)	659
		-	-	Relative stability of iso	Rasmussen	JCP	11	(1943)	432
		-	G	Analytical method	Brady	JOSA	34	(1944)	348
		4-9μ	G	Spec, Anal	Brady	IEC	16	(1944)	422
		6.26-11μ	G	Ext coeff	Nielsen	RMP	16	(1944)	307
		-	G	Anal	O'Bryan	JOSA	35	(1945)	799
		500-2000	-	Spec	Thompson	PRS	184	(1945)	3
		600-1800	-	Spec	Thompson	TFS	41	(1945)	246
		-	-	Thermo	Aston	JCP	14	(1946)	67
		-	-	Ext coeff, Anal	Lee	IEC	18	(1946)	659
		-	G	Mol struct	Nielsen	JOSA	37	(1947)	296
		2-15μ	G	Spec, Assign	Rasmussen	JCP	15	(1947)	131
		-	-	Group anal	Seyfried	IEC	19	(1947)	298
		-	-	Quant mech, FC	Coulson	PRS	193	(1948)	456
		-	-	Absorption freq	Johnston	AC	20	(1948)	805
		1-15μ	G,L	Spec	Greitz	JRNB	42	(1949)	365
		-	-	Anal	Hampton	AC	21	(1949)	923
		1000-900	-	Anal	Hart	JACS	71	(1949)	1980
		-	G	Thermo	Kilpatrick	JRNB	42	(1949)	225
		600-3600	G	Ident, Spec	Roberts	JACS	71	(1949)	3925
		-	-	IR, Anal	Starr	AC	21	(1949)	572
		-	G	Anal	Coggeshall	AC	22	(1950)	381
		-	-	Anal	Hauser	JPCC	54	(1950)	256
		-	-	Moment of inertia theory	Torkington	JCP	18	(1950)	407
		-	-	C=C freq	Haszeldine	JCS	-	(1952)	4423
		-	Sol	C=C & CH freq	Davison	JCS	-	(1953)	2607
		-	-	Anal, Polymer struct	Foster	JACS	75	(1953)	2910
		-	-	Anal	Naylor	JACS	75	(1953)	5392
		10-15μ	L	Spec	Patterson	AC	26	(1954)	823
		-	-	Ident	Schubert	JACS	76	(1954)	1929

		2-15μ	G	Spec	Pierson	AC	28 (1956)	1218
C_4H_6	1-Butyne	-	-	Assign	Cleveland	JCP	10 (1942)	172
		2-12μ	G	Spec	Brady	IEC	16 (1944)	422
		-	-	Thermo	Wagman	JRNB	35 (1945)	467
		-	G	Anal, Press broadening	Seyfried	IEC	19 (1947)	298
		-	-	Assign	Sheppard	JCP	17 (1949)	74
		-	L,S	Thermo	Aston	JACS	72 (1950)	5287
		-	-	Bending freq	Ferigle	JCP	20 (1952)	1928
		300-3800	Sol	Freq, Deformation parameters	Nyquist	SA	16 (1960)	417
C_4H_6	2-Butyne	-	-	Assign	Badger	JCP	5 (1937)	178
		-	-	Thermo	Crawford	JCP	7 (1937)	437
		2-24μ	-	Spec, Freq, Assign	Crawford	JCP	7 (1937)	555
		-	-	Quant mech	Glockler	JCP	5 (1937)	813
		-	-	Thermo	Kistiakowsky	JCP	8 (1940)	618
		-	-	Hindered rot	Langseth	JCP	8 (1940)	415
		-	-	Freq, Isotopic effect	Cleaveland	JCP	9 (1941)	390
		-	-	FC	Crawford	JCP	9 (1941)	69
		-	-	Pot fn, FC	Linnett	TFS	37 (1941)	469
		-	-	Thermo	Wagmann	JRNB	35 (1945)	467
		-	-	Quant mech, Thermo	Halford	JCP	15 (1947)	364
		-	-	Quant mech	Meister	JCP	15 (1947)	349
		-	G	Press broadening	Seyfried	IEC	19 (1947)	298
		-	-	FC	Walsh	TFS	43 (1947)	60
		-	-	Hindered rot	Lassettre	JCP	17 (1949)	317
		-	-	C=C freq	Haszeldine	JCS	- (1954)	1261
		2-25μ	G	Spec, Freq, Mol anal	Mills	PRS	226 (1954)	306
		-	G	NCA, I	Mills	PRS	228 (1955)	287
		-	-	Free rot, Selection rule	Bauman	JCP	24 (1956)	13
C_4H_6	Cyclobutene	600-3500	G	Spec, Ident	Roberts	JACS	71 (1949)	3925
		2-16μ	G	Spec	Roberts	JACS	74 (1952)	3192
		250-3500	-	C=C freq, Struct	Lord	AC	26 (1954)	429
		250-3800	L,G	Spec, Assign	Lord	JACS	79 (1957)	2401
C_4H_6	Methylenecyclopropane	2-16μ	G	Spec, Assign, Group freq	Gragson	JACS	75 (1953)	3344
$C_4H_6D_2N_2O$	Diacetylhydrazone-d_2	400-3600	S	Spec, Group assign	Miyazawa	JCP	24 (1956)	408
$C_4H_6D_2N_2O_2$	2,3-Butanedione dioxime-d_2	-	-	OD freq	Gordycki	JCP	19 (1951)	1205
		2-16μ	S	Spec, H bond	Voter	AC	23 (1951)	1730
		2-15μ	S	Spec	Nakahana	BCSJ	29 (1956)	296

$C_4H_6D_2N_2O_2$	N,N'-Dimethyloxamide-d_2	400-3600	S	Spec, Group assign	Miyazawa	JCP	24 (1956)	408
$C_4H_6D_2O_2$	Butyric acid-α,O-d_2	-	-	Spec	Eliel	SA	10 (1958)	423
$C_4H_6D_2O_2$	Ethyl acetate-d_2	700-4000	Sol	Spec, Freq	Nolin	CJC	34 (1956)	1392
$C_4H_6D_4N_4$	Biacetyldihydrazone-d_4	600-3500	S	Freq, Assign	Stonfer	JACS	82 (1960)	3491
$C_4H_6BrClO_2$	Ethyl bromochloroacetate	-	L	C=O, C-O, C-Cl, C-Br freq	Mcbee	JACS	77 (1955)	755
$C_4H_6BrFO_2$	Ethyl bromofluoroacetate	-	L	C=O, C-O, C-Br freq	Mcbee	JACS	77 (1955)	755
C_4H_6BrN	4-Bromobutanenitrile	- 2200-2300	- Sol	C=N freq Freq, Struct	Kitson Jesson	AC SA	24 (1952) 13 (1958)	334 217
$C_4H_6Br_2O_2$	β,β-Dibromoisobutric acid	-	-	C=O freq	Ferris	JOC	20 (1955)	780
$C_4H_6Br_2O_2$	Ethyl dibromoacetate	-	L	C=O, C-O, C-Br freq	Mcbee	JACS	77 (1955)	755
$C_4H_6ClFO_2$	Ethyl chlorofluoroacetate	-	L	C=O, C-O, C-Cl freq	Mcbee	JACS	77 (1955)	755
C_4H_6ClN	4-Chlorobutanenitrile	- 2200-2300	- Sol	C=N freq Freq, Struct	Kitson Jesson	AC SA	24 (1952) 13 (1958)	334 217
$C_4H_6ClNO_2$	1-Chloro-3-nitro-2-butene	-	-	C-NO_2 freq	Shechter	JACS	76 (1954)	2716
$C_4H_6ClNO_3$	Methyl N-chloroacetyl-carbamate	650-4000	Sol	Spec	Pianka	JCS	- (1960)	983
$C_4H_6ClN_3O_5$	2-Chloro-5,5-dinitro-3-aza-4-oxa-2-hexene	3-10μ -	Sol Sol	Spec, I, Band freq Ext coeff	Belew Grabiel	JACS JACS	77 (1955) 77 (1955)	1110 1293
$C_4H_6ClO_4B$	Chloroacetylethylene borate	6-14μ	L,S	Struct, Group freq	Blau	JCS	- (1960)	380
$C_4H_6Cl_2$	1-Chloro-2-chloromethyl-2-propene	1.6-2.1μ	Sol	Ext coeff	Goddu	AC	29 (1957)	1790
$C_4H_6Cl_2$	1,3-Dichloro-2-butene	2-15μ	L,Sol	Group freq	Kitson	AC	25 (1953)	1470
$C_4H_6Cl_2$	$\alpha(\beta)$-1,3-Dichloro-2-butene	3.35-14.4μ	L	Table, I	Hatch	JACS	77 (1955)	1136

$C_4H_6Cl_2$	cis-1,4-Dichloro-2-butene	5-14μ 2-15μ	- L,Sol	Spec Group freq	Mislow Kitson	JACS AC	73	(1951) (1953)	244 1470
$C_4H_6Cl_2$	trans-1,4-Dichloro-2-butene	5-14μ 2-15μ	- L,Sol	Spec Group freq	Mislow Kitson	JACS AC	73 25	(1951) (1953)	244 1470
$C_4H_6Cl_2$	cis-2,3-Dichloro-2-butene	2-16μ	-	Spec	Hatch	JACS	73	(1951)	4393
$C_4H_6Cl_2$	trans-2,3-Dichloro-2-butene	2-16μ	-	Spec	Hatch	JACS	73	(1951)	4393
$C_4H_6Cl_2$	3,4-Dichloro-1-butene	-	Sol	Group freq, Spec	Potts	SA	-	(1959)	679
$C_4H_6Cl_2F_2O$	1,1-Difluoro-2,2-dichloroethyl ethyl ether	3-15μ	G,L	Spec	Park	JACS	73	(1951)	861
$C_4H_6Cl_2O$	cis-2,3-Dichloro-2-buten-1-ol	2-16μ	-	Spec	Hatch	JACS	73	(1951)	4393
$C_4H_6Cl_2O$	trans-2,3-Dichloro-2-buten-1-ol	2-16μ	-	Spec	Hatch	JACS	73	(1951)	4393
$C_4H_6Cl_2O_2$	1-Chloroisopropyl chloroformate	-	L	Freq, Cl_2 substitution	Hales	JCS	-	(1957)	618
$C_4H_6Cl_2O_2$	Ethyl dichloroacetate	-	L	C=O, C-O, C-Cl freq	Mcbee	JACS	77	(1955)	755
$C_4H_6Cl_2O_5B_2$	Dichlorodiacetyl diborate	1500-1800	S	Carbonyl freq, Assign	Duncanson	JCS	-	(1958)	3652
$C_4H_6Cl_3NO.HCl$	N,N-Dimethyltrichloroacetamidine hydrochloride	1350-4000	S	Struct	Grivas	CJC	37	(1959)	1260
$C_4H_6Cl_3NO.HCl$	N-Ethyltrichloroacetamidine hydrochloride	1350-4000	S	Struct	Grivas	CJC	37	(1959)	1260
$C_4H_6Cl_4$	1,1,1,2-Tetrachlorobutane	-	-	Anal	Brown	JACS	77	(1955)	4019
$C_4H_6Cl_4$	1,1,1,3-Tetrachlorobutane	-	-	Anal	Brown	JACS	77	(1955)	4019
$C_4H_6Cl_4$	1,2,3,3-Tetrachlorobutane	2-16μ	-	Spec	Hatch	JACS	73	(1951)	4393
$C_4H_6Cl_4$	1,2,3,4-Tetrachlorobutane (dl)	2-15μ	L,Sol	Group freq	Kitson	AC	25	(1953)	1470
$C_4H_6Cl_4$	1,2,3,4-Tetrachlorobutane (meso)	2-15μ	L,Sol	Group freq	Kitson	AC	25	(1953)	1470

$C_4H_6Cl_4O_2$	α,γ,γ,γ, -Tetrachloro-butyraldehyde hydrate	-	L,Sol	Group freq, Struct	Hall	JCS	-	(1954)	2034
$C_4H_6FIO_2$	Ethyl fluoroiodoacetate	-	L	C=O, C-O freq	Mcbee	JACS	77	(1955)	755
$C_4H_6FN_3O_3$	Fluoropyruvic acid semicarbazone	-	-	H bond, CF freq	Bergmann	JCS	-	(1956)	1519
$C_4H_6F_2$	1,1-Difluoro-3-methyl-butadiene	-	-	Ident	Tarrant	JACS	76	(1954)	2343
$C_4H_6F_2O_2$	Ethyl difluoroacetate	1200-20000	Sol	C=O freq	Bender	JACS	75	(1953)	5986
		-	L	C=O, C-O freq	Mcbee	JACS	77	(1955)	755
$C_4H_6F_3NO.HCl$	N-Ethyltrifluoro-acetamidine hydro-chloride	1350-4000	S	Struct, Protonation	Grivas	CJC	37	(1959)	1260
$C_4H_6F_3NO_2$	Ethyl N-Trifluoromethyl-carbamate	3-6μ	S	Freq, FC, Assign	Barr	JCS	-	(1956)	3428
$C_4H_6F_4O$	1,1,2,2-Tetrafluoroethyl ethyl ether	2-15μ	G,L	Spec	Park	JACS	73	(1951)	1329
$C_4H_6N_2$	4-Methylimidazole	-	Sol	Band freq	Ehrlich	JACS	76	(1954)	5268
		625-4000	S	Spec, Assign	Garfinkel	JACS	80	(1958)	3807
$C_4H_6N_2O$	4-Hydroxymethyl-imidazole	2400-3600	S	Spec	Turner	JACS	71	(1949)	3472
$C_4H_6N_2OS$	1-Methyl-2-thiohydantoin	2500-800	S	Bands assign	Elmore	JCS	-	(1958)	3489
$C_4H_6N_2OS$	5-Methyl-2-thiohydantoin	2500-800	S	Band assign	Elmore	JCS	-	(1958)	3489
$C_4H_6N_2O_2$	5,6-Dihydrouracil	-	S	NH & C = O freq	Murray	JACS	76	(1954)	3665
$C_4H_6N_2O_2$	Diketopiperazine	1-2.5μ	-	Spec, Assign	Ellis	JCP	7	(1939)	862
		1.7μ	S	Fermi resonance	Ellis	PR	55	(1939)	1098
		2.75-3.75μ	S	H bond	Bushwell	JACS	62	(1940)	2759
		2.8-3.6μ	S	Spec, Assign, FC	Kellner	PRS	177	(1941)	447
		2800-3500	S	Spec	Ambrose	PRS	206	(1951)	192
		700-4000	S	Spec	Newman	JCP	19	(1951)	1147
		2.8-15μ	S	Spec, Assign	Shimanouchi	JCP	19	(1951)	1479

		-	S	NH freq	Badger	PNAS	40	(1954)	12
		-	-	C=C freq, Bond angle	Krimm	JCP	23	(1955)	1371
		-	S	H bond	Pimental	JCP	24	(1956)	639
		1800-200	S	Freq, Assign	Miyazawa	JMS	4	(1960)	155
$C_4H_6N_2O_2$	Dimethylfuroxan	-	-	Table, I, Group freq	Boyer	JACS	77	(1955)	4238
$C_4H_6N_2O_2Si$	Dimethyldiisocyanato-silane	-	-	Freq, Assign	Widmaier	ZAUA	300	(1959)	194
$C_4H_6N_2O_4$	N-Acetylethanenitrolic acid	-	-	C=O, C=N freq, I	Grabiel	JACS	77	(1955)	1293
$C_4H_6N_2O_4$	cis-2,3-Dinitro-2-butene	-	-	Struct	Mead	JOC	23	(1958)	921
$C_4H_6N_2O_5$	2,4,5,6-Tetrahydroxy-pyrimidine hydrate	650-3600	S	Freq, FC, Struct	Tanner	SA	8	(1956)	9
$C_4H_6N_2S$	2-Imino-3-methyl-Δ^4-thiazoline	3-6μ	Sol	Spec, Table, Freq, Struct	Angyal	JCS	-	(1952)	2911
$C_4H_6N_2S$	1-Methyl-2-thioimidazolone	2-12μ	Sol	Spec	Ettlinger	JACS	72	(1950)	4699
$C_4H_6N_2S_2Si$	Dimethylsilyl diisothio-cyanate	280-3000	-	Spec, Struct, Assign	Goubeau	ZAUA	294	(1958)	96
$C_4H_6N_2Si$	Dimethyldiisocyano-silane	4.5-8μ	Sol	Spec, Table, Freq	Mcbridge	JACS	74	(1952)	5247
$C_4H_6N_4$	2,4-Diaminopyrimidine	2-25μ	S	Spec, Group freq	Short	JCS	-	(1952)	168
$C_4H_6N_4$	4,6-Diaminopyrimidine	2-15μ	S	Spec, Group freq, Assign	Brownlie	JCS	-	(1950)	3062
		2-25μ	S	Spec, Group freq	Short	JCS	-	(1952)	168
$C_4H_6N_4O$	Acetyldicyandiamide	-	-	C=N band freq	Adams	JOC	17	(1952)	1162
$C_4H_6N_4O$	2,4-Diamino-6-hydroxy-pyrimidine	2-25μ	S	Spec, Group freq	Short	JCS	-	(1952)	168
$C_4H_6N_4O$	4,6-Diamino-2-hydroxy-pyrimidine	2-15μ	S	Spec, Group freq, Assign	Brownlie	JCS	-	(1950)	3062
		2-25μ	S	Spec, Group freq	Short	JCS	-	(1952)	168
$C_4H_6N_4O_2 \cdot \frac{1}{2}H_2SO_4$	2,4-Diamino-5,6-dihydroxy-pyrimidine semisulfate	650-3600	S	Freq, Struct	Tanner	SA	8	(1956)	9

$C_4H_6N_4O_7$	2,5,5-Trinitro-3-aza-4-oxa-2-hexene	3-10 μ	Sol	Spec, Group freq, I	Belew	JACS	77	(1955)	1110
		-	Sol	Ext coeff	Grabiel	JACS	77	(1955)	1293
$C_4H_6N_4O_8$	2,2,3,3-Tetranitrobutane	3-10 μ	Sol	Spec, Group freq, I	Belew	JACS	77	(1955)	1110
		-	Sol	Ext coeff	Grabiel	JACS	77	(1955)	1293
$C_4H_6N_4S$	5-Allylamino-1,2,3,4-thiatrizole	700-1700	S	Spec, Struct, Assign	Lieber	CJC	36	(1958)	801
$C_4H_6N_4S$	4,6-Diamino-2-mercapto-pyrimidine	2-15 μ	S	Spec, Group freq, Assign	Brownlie	JCS	-	(1950)	3062
$C_4H_6N_8$	Guanazoguanazole	-	-	Group freq	Kaiser	JOC	18	(1953)	1610
C_4H_6O	Butadiene oxide	-	-	Struct	Field	JCP	18	(1950)	1298
		2-15 μ	L,Sol	Spec, Freq	Patterson	AC	26	(1954)	823
C_4H_6O	2-Buten-1-al	1400-2000	G,Sol	Spec	Bloat	JACS	70	(1948)	194
		1800-1650	Sol	Ext coeff	Cross	TFS	47	(1951)	354
		2-15 μ	L,Sol	Group freq	Kitson	AC	25	(1953)	1470
C_4H_6O	trans-2-Buten-1-al	-	Sol	Group freq, Spec	Potts	SA	-	(1959)	679
C_4H_6O	2-Butynol	-	-	C=C freq	Ettlinger	JACS	77	(1955)	1831
C_4H_6O	Cyclobutanone	650-3700	L	Spec, Ident	Roberts	JACS	71	(1949)	3925
		-	-	Ident	Ramirez	JACS	76	(1954)	491
		-	-	C=O freq	Snyder	JACS	76	(1954)	4601
		-	Sol	C=O freq	Bartlett	JACS	77	(1955)	2806
		1600-1800	Sol	Freq	Hall	JACS	80	(1958)	6428
		-	Sol	H bond, Freq shift	Tamres	JACS	81	(1959)	2100
		300-7000	G,L	Spec, Assign, NCA	Frei	JMS	5	(1960)	218
C_4H_6O	2,3-Dihydrofuran	650-3150	L	Table, Band freq, I	Meakins	JCS	-	(1953)	4170
		-	-	Group freq	Barr	JCS	-	(1954)	3766
C_4H_6O	3,4-Epoxy-1-butene	2-15 μ	L	Spec, Struct anal	Shreve	AC	23	(1951)	277
		1-37 μ	Sol	Terminal epoxides	Goddu	AC	30	(1958)	2013
		-	Sol	Group freq, Spec	Potts	SA	-	(1959)	679
C_4H_6O	Methacrolein	1200-1800	-	Absorption freq, Spec	Barnes	IEC	15	(1943)	659
		1.6-2.1 μ	Sol	Ext coeff	Goddu	AC	29	(1957)	1790
C_4H_6O	Methoxy methylacetylene	300-3800	Sol,S	Freq, C-H deformation & chemical parameter	Nyquist	SA	16	(1960)	417

C_4H_6O	Methoxy methylacetylene	300-3800	Sol,S	Freq, C-H deformation & chemical parameter	Nyquist	SA	16	(1960)	417
C_4H_6O	Methyl vinyl ketone	-	Sol	C=C, CH freq	Davison	JCS	-	(1953)	2607
		-	-	Anal, Struct	Foster	JACS	75	(1953)	2910
		-	Sol	C-H, CO bond freq	Baker	JACS	82	(1960)	1923
$C_4H_6O_2$	Butadiene dioxide	2-15μ	L,Sol	Spec, Group freq	Patterson	AC	26	(1954)	823
$C_4H_6O_2$	Butadione-2,3	-	-	FC	Walsh	TFS	43	(1947)	158
		-	-	Absorption freq, Struct anal	Rasmussen	JACS	71	(1949)	1068
		-	Sol	C=O stretch freq	Cosgrove	JCS	-	((1952)	4821
		-	L	Band freq	Leonard	JACS	75	(1953)	3300
		-	-	Spec, Assign	Noack	ZE	64	(1960)	707
$C_4H_6O_2$	2-Butenoic acid	2-15μ	L,Sol	Group freq	Kitson	AC	25	(1953)	1470
		-	Sol	Freq, Dissociation const	Goulden	SA	6	(1954)	129
$C_4H_6O_2$	cis-2-Butenoic acid	-	-	Band freq	Eglinton	JCS	-	(1954)	3197
		-	Sol	I, Group freq	Allan	JCS	-	(1955)	1874
		.9-3μ	Sol	Spec	Holman	AC	28	(1956)	1533
$C_4H_6O_2$	trans-2-Butenoic acid	700-4000	L,Sol	Table, Ext coeff	Flett	JCS	-	(1951)	962
		-	-	I bands	Eglington	JCS	-	(1954)	3197
		-	Sol	Group freq	Allan	JCS	-	(1955)	1874
		-	Sol	Group freq, Spec	Potts	SA	-	(1959)	679
$C_4H_6O_2$	3-Butenoic acid	-	-	Band freq	Eglinton	JCS	-	(1954)	3197
$C_4H_6O_2$	1,4-Butyne-2-diol	-	S	Spec	Karagonuis	ZE	61	(1957)	1094
		8.87-9.44μ	Sol	Relative absorbance anal	Spell	AC	31	(1959)	1600
$C_4H_6O_2$	Carboxycyclopropane	2-16μ	S	Spec, Struct	Allen	JOC	22	(1957)	1291
$C_4H_6O_2$	4-Hydroxybutanoic acid lactone	-	L,S	Struct	Pinder	JCS	-	(1952)	2236
		5.2-6.0μ	Sol	Spec, H bond, Band freq	Searles	JACS	75	(1953)	71
		-	-	C=O freq	Radell	JACS	76	(1954)	4188
		-	-	Distinct from other	Hart	JACS	77	(1955)	3138
		1600-1800	L,Sol	Freq	Hall	JACS	80	(1958)	6428
$C_4H_6O_2$	Methacrylic acid	700-4000	L,S	Table, C=O freq	Flett	JCS	-	(1951)	962
		-	Sol	C=C, CH freq	Davison	JCS	-	(1953)	2607
		5.7-5.9μ	Sol	IR	Chang	JPC	60	(1956)	782

		-	Sol	Group freq, Spec	Potts	SA	-	(1959)	679
$C_4H_6O_2$	Methyl acrylate	1050-1800	-	Absorption freq, Spec	Barnes	IEC	15	(1943)	659
		500-3200	-	Spec	Thompson	TFS	41	(1945)	246
		-	Sol	Absorption band freq	Hampton	AC	21	(1949)	914
		-	Sol	C=O, C=C, CH freq	Davison	JCS	-	(1953)	2607
		200-3200	-	Spec, Assign	Hidalgo	ARS	52B	(1956)	627
		2-15μ	L	Spec, Assign	Walton	JACS	79	(1957)	3985
		-	Sol	Freq, I	Thompson	SA	13	(1958)	236
		800-1500	Sol	Group assign	Katritzky	SA	16	(1960)	954
		-	-	Assign	Katritzky	SA	16	(1960)	964
$C_4H_6O_2$	Vinyl acetate	1050-2000	-	Spec, Absorption freq	Barnes	IEC	15	(1943)	659
		500-3200	-	Spec	Thompson	TFS	41	(1945)	246
		2.8-4.5μ	L	Spec, Band freq	Adelman	JOC	14	(1949)	1057
		-	Sol	C=C, CH freq	Davison	JCS	-	(1953)	2607
		1.6-2.1μ	Sol	Ext coeff	Goddu	AC	29	(1957)	1790
		4.7-5.75μ	S	Struct	Wiberly	AC	29	(1957)	210
		-	Sol	Freq, I	Thompson	SA	13	(1958)	236
		-	Sol	Group freq, Spec	Potts	SA	-	(1959)	679
		-	Sol	C-H, CO band freq	Baker	JACS	82	(1960)	1923
$C_4H_6O_2S$	Divinyl sulfone	-	Sol	Group freq	Waight	JCS	-	(1952)	2440
$C_4H_6O_2S_2$	Methyl carboxymethyl-dithioacetate	400-4000	S	Spec, Freq	Bak	ACS	12	(1958)	1451
$C_4H_6O_3$	Acetic anhydride	2-8μ	Sol	Spec, Assign	Bennett	JACS	49	(1927)	50
		.8-6.4μ	G	Anal in rate study	Plyler	JCP	3	(1935)	679
		1050-1850	-	Absorption freq, Spec	Barnes	IEC	15	(1943)	659
		950-1250	Sol	Spec, Anal, Ext coeff	Brown	JCS	-	(1951)	87
		-	Sol	Effect of pyridine	Gold	JCS	-	(1953)	1409
		1050-1250	Sol	Reference	Bourne	JACS	76	(1954)	3206
		1000-1250	Sol	Band freq, Anal	Bourne	JCS	-	(1954)	2006
		-	-	Band freq, Reference	Launing	JOC	19	(1954)	1171
		1600-1800	Sol	Freq	Hall	JACS	80	(1958)	6428
		1750-1850	Sol	Doublet from coupling	Dauben	JOC	24	(1959)	1595
$C_4H_6O_3$	Acetoacetic acid	-	Sol	H bond	Oki	BCSJ	33	(1960)	119
$C_4H_6O_3$	Diacetyl ether	-	G,Sol	Freq	O'Sullivan	JCS	-	(1957)	4144
$C_4H_6O_3$	Methyl ethylenecarbonate	-	Sol,L	Struct, Dissociation	Hales	JCS	-	(1957)	618
$C_4H_6O_3$	Methylpyruvic acid	660-4000	[illegible]	Spec, Tautomerism	Jodlbauer	BSCF	-	(1957)	1148

$C_4H_6O_3$	Methylpyruvic acid	660-4000	-	Spec, Taut	Josien	BSCF	-	(1957)	1148
$C_4H_6O_3$	Trimethylene carbonate	1600-1800	L,Sol	Freq	Hall	JACS	80	(1958)	6428
$C_4H_6O_4$	Diacetyl peroxide	-	Sol	Table, C=O freq	Davison	JCS	-	(1951)	2456
		5-15μ	Sol	Spec, Peroxide bands	Minkoff	PRS	224	(1954)	176
$C_4H_6O_4$	Dimethyl oxalate	1500-5000	Sol	Group freq	Briggs	AC	29	(1957)	904
		1700-1800	L,Sol	Iso, Vib coupling	Abramovitch	CJC	37	(1959)	1146
$C_4H_6O_4$	Methyl malonate	-	Sol	H bond	Oki	BCSJ	33	(1960)	119
$C_4H_6O_4$	Succinic acid	3μ	S	H bond	Glatt	JCP	15	(1947)	880
		1.87-2.7μ	S	H bond	Glatt	PR	73	(1948)	541
		700-4000	S,L	Table, C=O freq, Assoc	Flett	JCS	-	(1951)	962
		500-1500	S	Spec, Assign	Hadzi	PRS	216	(1953)	247
		-	-	Ident	Blowquist	JACS	77	(1955)	1806
		670-2000	L,S	Spec	Corish	JCS	-	(1955)	2431
		-	-	Group study	Bratoz	SA	8	(1956)	249
		-	S	H bond	Pimental	JCP	24	(1956)	639
		680-2500	-	Spec	Hadzi	NC	11	(1959)	715
		650-2000	S	Struct, Spec	Davies	TFS	56	(1960)	185
		5-15μ	S	Pressure effect on freq & I	Lippincott	SA	16	(1960)	58
		500-3500	S,Sol	Assign, Freq	Shimanouchi	SA	16	(1960)	1328
$C_4H_6O_5$	l-Malic acid	-	S	Group freq	Eliel	JACS	75	(1953)	4585
$C_4H_6O_5$	dl-Malic acid	-	S	Group freq	Eliel	JACS	75	(1953)	4585
		-	S	Spec, Freq, Ident	Kilkwarf	AC	26	(1954)	191
$C_4H_6O_6$	Tartaric acid	.5-2μ	Sol	Rotatory dispersion	Ingersoll	PR	9	(1917)	257
		-	Sol	Rotatory dispersion, Polarization	Ingersoll	JOSA	5	(1921)	156
		5-50μ	-	Absorption	Cartwright	PR	35	(1930)	415
		-	S	Spec, Freq, Ident	Kalkwarf	AC	26	(1954)	191
C_4H_6S	2,3-Dihydrothiophene	-	-	Spec	Birch	JCS	-	(1951)	2556
C_4H_6S	2,5-Dihydrothiophene	-	-	Spec	Birch	JCS	-	(1951)	2556
C_4H_6S	Divinyl sulphide	600-3500	G,L	Spec	Greogieff	CJC	37	(1959)	1104
C_4H_7D	Isobutene-1-d_1	-	G	CD freq	Glockling	JCS	-	(1955)	716

C_4H_7DO	Butyraldehyde-d_1	2-15μ	S	CH vib	Eggers	AC	28 (1956) 1328
		-	-	CH freq	Pinchas	AC	29 (1957) 334
$C_4H_7DO_2$	Butyric acid-d_1	1-13μ	G	Spec, H bond	Herman	JCP	8 (1940) 252
		-	-	Group study	Bratoz	SA	8 (1956) 249
		1500-700	G	Spec, Freq assign	Hadzi	SA	12 (1958) 162
$C_4H_7DO_2$	n-Butyric acid-α-d_1	8-13μ	-	Spec	Eliel	SA	10 (1958) 423
$C_4H_7DO_2$	Isobutyric acid-α-d_1	8-13μ	-	Spec	Eliel	SA	10 (1958) 423
C_4H_7Br	1-Bromo-3-butene	2-16μ	Sol	Spec	Roberts	JACS	73 (1951) 2509
C_4H_7Br	cis-2-Bromo-2-butene	3.34-12.5μ	L	Table, I	Dreiding	JACS	76 (1954) 1902
C_4H_7Br	trans-2-Bromo-2-butene	3.34-12.54μ	L	Table, I	Dreiding	JACS	76 (1954) 1902
C_4H_7Br	Bromocyclobutane	2-16μ	Sol	Spec	Roberts	JACS	73 (1951) 2509
		2-16μ	-	Spec, Ext coeff, Band freq	Roberts	JACS	73 (1951) 5030
$C_4H_7BrO_2$	α-Bromobutyric acid	-	Sol	OH & dissociation const	Goulden	SA	6 (1954) 129
$C_4H_7BrO_2$	Ethylbromoacetate	-	L	C=O, C-O, C-Br freq	Mcbee	JACS	77 (1955) 755
C_4H_7Cl	cis-1-Chloro-2-butene	2-15μ	G	Spec	Hatch	JACS	72 (1950) 727
		2-15μ	L,Sol	Group freq	Kitson	AC	25 (1953) 1470
C_4H_7Cl	trans-1-Chloro-2-butene	2-15μ	G	Spec	Hatch	JACS	72 (1950) 727
		2-15μ	L,Sol	Group freq	Kitson	AC	25 (1953) 1470
C_4H_7Cl	1-Chloro-2-butene	2-16μ	Sol	Spec	Roberts	JACS	73 (1951) 2509
C_4H_7Cl	2-Chloro-3-butene	2-15μ	L,Sol	Group freq	Kitson	AC	25 (1953) 1470
C_4H_7Cl	Chlorocyclobutane	2-16μ	Sol	Spec	Roberts	JACS	73 (1951) 2509
		2-16μ	-	Spec, Band freq	Roberts	JACS	73 (1951) 5030
C_4H_7Cl	Chloromethylcyclopropane	2-16μ	Sol	Spec	Roberts	JACS	73 (1951) 2509
C_4H_7Cl	Methallyl chloride	1050-1800	-	Spec, Absorption freq	Barnes	IEC	15 (1943) 659
		-	Sol	Absorption freq, Spec	Potts	SA	15 (1959) 679
C_4H_7ClO	α-3-Chloro-2-buten-1-ol	3-12.7μ	L	Table, I	Hatch	JACS	77 (1955) 1136

C_4H_7ClO	β-3-Chloro-2-buten-1-ol	3-14.7μ	L	Table, I	Hatch	JACS	77	(1955) 1136
C_4H_7ClO	Vinyl 2-chloroethyl ether	-	Sol	C=C, CH freq	Davison	JCS	-	(1953) 2607
C_4H_7ClOPS	Isopropylmethylphosphono-chloridethionate	600-900	S	Band assign	McIvor	CJC	37	(1959) 869
$C_4H_7ClO_2$	dl-α-Chlorobutyric acid	-	S,L	Spec	Takenishi	NKZ	81	(1960) 858
$C_4H_7ClO_2$	Ethyl chloroacetate	-	L	C=O, C-O, C-Cl freq	Mcbee	JACS	77	(1955) 755
		-	Sol	I, Substitution	Gutjahr	SA	16	(1960) 1209
$C_4H_7ClO_2$	Methyl β-chloropropionate	1800-800	Sol	Spec	Lee	JAPC	3	(1953) 481
$C_4H_7ClO_3$	Isopropyl chlorocarbonate	-	S	Band freq	Ory	SA	16	(1960) 1488
$C_4H_7ClO_3$	n-Propyl chlorocarbonate	-	S	Band freq	Ory	SA	16	(1960) 1488
$C_4H_7ClO_3$	n-Propyl chloroformate	800-1500	Sol	Band freq, Group assign	Katritzky	SA	16	(1960) 954
		-	-	Band freq, Assign	Katritzky	SA	16	(1960) 964
$C_4H_7Cl_2O_4P$	0,0-Dimethyl-0-2,2-dichloroethenyl phosphate	-	S	Spec, Group freq, Struct	Lorenz	JACS	77	(1955) 2554
$C_4H_7Cl_3NB$	n-Butyronitrile borontri-chloride complex	-	Sol	Freq	Gerrard	JCS	-	(1960) 2182
$C_4H_7Cl_3N_2$	N,N-Dimethyltrichloro-acetamidine	1000-3500	L,Sol	Assign, Struct, H bond	Grivas	CJC	37	(1959) 795
$C_4H_7Cl_3N_2$	N-Ethyltrichloro-acetamidine	1000-3500	L,Sol	Assign, Struct, H bond	Grivas	CJC	37	(1959) 795
$C_4H_7Cl_3O$	1,1,1-Trichloro-2-methyl-2-propanol	780-3600	Sol	Band freq, H bond	Bergmann	JACS	74	(1952) 1263
$C_4H_7Cl_3O_4P$	0,0-Dimethyl-2,2,2-trichloro-1-hydroxy-ethyl phosphonate	2-15μ	S	Spec, Group freq	Lorenz	JACS	77	(1955) 2554
$C_4H_7FO_2$	Ethyl fluoroacetate	1200-200	Sol	C=O freq	Bender	JACS	75	(1953) 5986
		-	L	C=O, C-O freq	Mcbee	JACS	77	(1955) 755
C_4H_7N	Isobutyronitrile	-	-	Ident	Naylor	JACS	75	(1953) 5392

C_4H_7N	Propyl cyanide	1-12 μ	L	Spec	Bell	JACS	57	(1935)	1023
		1-6.5 μ	L	Spec	Gordy	JCP	4	(1936)	85
		-	-	C=N freq	Kitson	AC	24	(1952)	334
		-	Sol	C=N freq, I	Felton	JCS	-	(1955)	2170
		-	Sol	C=N freq, I, Ext coeff	Skinner	JCS	-	(1955)	487
		-	-	I, Band tables	Thompson	TFS	52	(1956)	1451
		2200-2300	G,Sol	Struct, Spec	Jesson	SA	13	(1958)	217
		-	Sol	Freq	Gerrand	JCS	-	(1960)	2182
C_4H_7N	n-Propyl isocyanide	1-6.5 μ	L	Spec	Gordy	JCP	4	(1936)	85
C_4H_7NO	Acetone cyanohydrin	8800-10500	L,G	H bond	Thompson	JACS	61	(1939)	1396
		-	-	C=N freq, I	Kitson	AC	24	(1952)	334
		2200-2300	Sol	Freq, Struct	Jesson	SA	13	(1958)	217
C_4H_7NO	γ-Hydroxybutyronitrile	8800-10500	L	H bond	Thompson	JACS	61	(1939)	1396
C_4H_7NO	3-Methoxypropionitrile	2200-2300	Sol	Freq, Struct	Jesson	SA	13	(1958)	217
C_4H_7NO	2-Pyrrolidone	3260-680	S	Table, Band freq	Edwards	CJC	32	(1954)	85
		-	-	Group freq vs concentration	Klemperer	JACS	76	(1954)	5846
		-	S,Sol	Spec, Assign, Taut	Mason	JCS	-	(1957)	4874
		1600-1800	L,Sol	Freq	Hall	JACS	80	(1958)	6428
C_4H_7NOS	Propylene thiocyanohydrin	2.95-14.1 μ	-	Table, Group freq, I	Price	JACS	75	(1953)	2396
$C_4H_7NO_2$	2-Methyl-1-nitropropene	2-16 μ	Sol	Spec, Anal, Ident	Shechter	JACS	76	(1954)	3617
$C_4H_7NO_2$	2-Methyl-3-nitropropene	2-16 μ	Sol	Spec, Ident, Anal	Shechter	JACS	76	(1954)	3617
$C_4H_7NO_2$	2-Nitro-1-butene	-	-	Char. band	Emmons	JACS	75	(1953)	1993
$C_4H_7NO_3$	O-Acetyl acetohydroxamate	700-4000	S	Spec, H bond	Hadzi	SA	10	(1958)	38
$C_4H_7NO_3$	N-Acetylglycine	700-4000	S	IR (polarized)	Newman	JCP	19	(1951)	1147
		-	-	H bond	Elliott	JCP	20	(1952)	756
		-	S	H bond	Pimental	JCP	24	(1956)	639
$C_4H_7NO_3$	N,N-Diacetylhydroxylamine	-	S	Group freq	Ames	JCS	-	(1955)	631
$C_4H_7NO_3$	N,O-Diacetylhydroxylamine	-	S	Group freq	Ames	JCS	-	(1955)	631
		-	S	Freq	Freeman	JACS	80	(1958)	5954

$C_4H_7NO_4$	l-Aspartic acid	700-1500	S	Composition of d & dl forms	Tsuboi	BCSJ	32	(1959)	726
		1538-909	Sol	Spec	Parker	SA	16	(1960)	910
		6-11 μ	Sol	Spec	Parker	N	187	(1960)	386
$C_4H_7NO_4$	dl-Aspartic acid	600-4000	S	Ident	Epp	AC	29	(1957)	1283
		700-1500	S	Composition of d & dl forms	Tsuboi	BCSJ	32	(1959)	726
$C_4H_7NO_4$	Ethyl nitroacetate	-	L	Band freq, I	Haszeldine	JCS	-	(1953)	2525
		-	-	Char. band	Emmons	JACS	77	(1955)	4391
$C_4H_7NO_4$	N-Hydroxysuccinamic acid	-	S	Group freq	Ames	JCS	-	(1955)	631
$C_4H_7NO_4$	Tetrahydrofurfuryl nitrate	2-15 μ	Sol	Spec, Struct, Ext coeff	Carrington	SA	16	(1960)	1279
$C_4H_7NO_6$	Acetic anhydridenitric	2-5 μ	Sol	Struct, H bond	Marcus	JCP	27	(1957)	564
C_4H_7NS	Isopropyl isothio-cyanate	2000-2300	Sol	Spec, Group freq	Caldow	SA	13	(1958)	212
C_4H_7NS	n-Propyl isothiocyanate	2000-2300	Sol	Spec, Group freq	Caldow	SA	13	(1958)	212
C_4H_7NS	2-Methyl-2-thiazoline	-	-	Spec, Freq	Roggers	CPR	249	(1959)	2529
$C_4H_7NS_2$	4-Methyl-2-thiothiazolidone	-	-	Group freq	Clapp	JACS	75	(1953)	1490
$C_4H_7NS_2$	5-Methyl-2-thiothiazolidone	-	-	Group freq	Clapp	JACS	75	(1953)	1490
$C_4H_7N_3$	N-Dimethylcyanoformamidine	3-6.5 μ	Sol	Spec, Group freq	Woodburn	JOC	17	(1952)	1235
$C_4H_7N_3O$	Creatinine	5-10 μ	S	Spec, Group assign	Klotz	JPCC	52	(1948)	961
		-	S	C=N freq	Pickard	JACS	76	(1954)	5169
$C_4H_7N_3O.HCl$	Creatinine hydrochloride	680-3400	S	Spec	Mold	JACS	77	(1955)	178
$C_4H_7N_3O_2$	Methyl β-azidopropionate	2-16 μ	Sol	Spec, Freq	Boyer	JACS	73	(1951)	5248
$C_4H_7N_5$	2,4,6-Triaminopyrimidine	2-25 μ	S	Spec, Freq	Short	JCS	-	(1952)	168
$C_4H_7O_3$	α-Hydroxyisobutyrate ion	-	-	Spec	Goulden	CIL	-	(1960)	721
$C_4H_7O_4B$	Acetylethylene borate	2-14 μ	S,L	Struct, Freq	Blau	JCS	-	(1960)	380
C_4H_8	1-Butene	-	-	Thermo	Kassel	JCP	4	(1936)	144

		-	-	Thermo	Kassel	JCP	4 (1936)	435
		-	-	Thermo	Kassel	JCP	4 (1936)	435
		2.6-3.8μ	Sol	Spec, Assign	Fox	PRS	175 (1940)	208
		-	-	Thermo	Pitzer	CR	27 (1940)	39
		-	G	Quant analysis	Brattain	JAP	13 (1942)	699
		800-1900	-	Spec	Barnes	IEC	15 (1943)	83
		700-1900	-	Spec, Freq	Barnes	IEC	15 (1943)	659
		-	G	Quant analysis	Brattain	JAP	14 (1943)	418
		4-9μ	G	Spec	Brady	IEC	16 (1944)	422
		2-16μ	G	Spec, Iso	McCarthy	JCP	12 (1944)	461
		-	-	Thermo	Aston	JCP	14 (1946)	67
		-	G	Thermo	Kilpatric	JRNB	37 (1946)	163
		-	-	Ext coefficient	Lee	IEC	18 (1946)	659
		2-15μ	G	Spec, Assign	Rasmussen	JCP	15 (1947)	120
		-	-	Analysis	Seyfried	IEC	19 (1947)	298
		●	-	Iso	Dibeler	JCP	16 (1948)	1008
		-	-	Rate of deuteration	Dibeler	JCP	16 (1948)	1008
		-	-	Analysis	Partington	JCS	- (1948)	2226
		1-15μ	G,L	Purity	Creitz	JRNB	43 (1949)	365
		-	G	Analysis	Milson	AC	21 (1949)	547
		-	-	Analysis	Regier	JOC	14 (1949)	505
		700-1500	G	IR, Spec, Assign	Sheppard	PRS	196 (1949)	195
		-	-	Assign	Sheppard	JCP	17 (1949)	74
		-	-	Analysis	Starr	AC	21 (1949)	572
		-	-	Analysis	Starr	AC	21 (1949)	572
		-	G	Analysis	Coggeshall	AC	22 (1950)	381
		-	G	Analysis	O'Neal	AC	22 (1950)	991
		10-15μ	L	Spec	Patterson	AC	26 (1954)	823
		10.85μ	G	Analysis	Perry	AC	29 (1957)	1123
		-	-	Freq	Bellamy	JCS	- (1958)	2463
		-	-	Assign	Sverdlov	OS	5 (1958)	354
		700-3500	L	Freq, Spec	Comeford	JMS	5 (1960)	474
		-	-	Assign	Harrah	JCP	33 (1960)	298
C_4H_8	cis-2-Butene	-	-	Thermo	Kassel	JCP	4 (1936)	144L
		-	-	Thermo	Kassel	JCP	4 (1936)	435
		-	-	Thermo	Kassel	JCP	4 (1936)	435
		435-4000	G	Spec	Gershinowitz	JCP	6 (1938)	247
		2.6-3.8μ	Sol	Spec, Assign	Fox	PRS	175 (1940)	208
		-	-	Thermo	Kistrakowsky	JCP	8 (1940)	618
		-	-	Thermo	Pitzer	CR	27 (1940)	39
		-	G	Quant analysis	Brattain	JAP	14 (1943)	418
		-	-	Thermo	Scott	JRNB	33 (1944)	1

		800-1100	-	Spec, Assign	Thompson	PRS	184	(1945)	3
		-	-	Thermo	Aston	JCP	14	(1946)	67
		-	G	Thermo	Kilpatric	JRNB	37	(1946)	163
		-	-	Ext coefficient	Lee	IEC	18	(1946)	659
		-	-	Spec	Coggeshall	JCP	15	(1947)	65
		-	G	NCA	Kilpatrick	JRNB	38	(1947)	191
		2-15μ	G	Spec, Assign	Rasmussen	JCP	15	(1947)	120
		-	-	Analysis	Seyfried	IEC	19	(1947)	298
		-	-	Thermo, Freq	Beckett	JACS	70	(1948)	4227
		-	-	Rate of deuteration	Dibeler	JCP	16	(1948)	1008
		1-15μ	G,L	Purity	Crietz	JRNB	43	(1949)	365
		-	G	Analysis	Roal	JCS	-	(1949)	2222
		700-1500	G	Spec, Freq, Assign	Sheppard	PRS	196	(1949)	195
		-	-	Analysis	Starr	AC	21	(1949)	572
		-	-	Analysis	Starr	AC	21	(1949)	572
		-	-	Quant mech, Assign	Torkington	JCP	17	(1949)	1279
		7-14μ	G	Spec	Coggeshall	AC	22	(1950)	381
		-	G	Analysis	O'Neal	AC	22	(1950)	991
		-	-	Iso	Smith	JCP	20	(1952)	1808L
		10-15μ	L	Spec	Patterson	AC	26	(1954)	823
		4-9μ	G	Spec, Iso	Bristow	PRS	229	(1955)	525
		-	-	Freq	Brown	TFS	51	(1955)	1611
		14.93μ	G	Analysis	Perry	AC	29	(1957)	1123
		-	-	Freq	Bellamy	JCS	-	(1958)	2463
C_4H_8	trans-2-Butene	-	-	Thermo	Kassel	JCP	4	(1936)	144L
		-	-	Thermo	Kassel	JCP	4	(1936)	435
		-	-	Thermo	Kassel	JCP	4	(1936)	435
		435-4000	G	Spec	Gershinowitz	JCP	6	(1938)	247
		2.6-3.8μ	Sol	Spec, Assign	Fox	PRS	175	(1940)	208
		-	-	Thermo	Kistrakowsky	JCP	8	(1940)	618
		-	G	Thermo	Pitzer	CR	27	(1940)	39
		800-1900	-	Spec, Analysis	Barnes	IEC	15	(1943)	83
		750-1950	-	Spec, Freq	Barnes	IEC	15	(1943)	659
		-	G	Quant analysis	Brattain	JAP	14	(1943)	418
		4-9μ	G	Analysis, Spec	Brady	IEC	16	(1944)	422
		2-16μ	G	Spec, Iso	McCarthy	JCP	12	(1944)	461
		-	-	Thermo	Aston	JCP	14	(1946)	67
		-	G	Thermo	Kilpatrick	JRNB	37	(1946)	163
		-	-	Spec	Coggeshall	JCP	15	(1947)	65
		-	G	NCA	Kilpatrick	JRNB	38	(1947)	191
		2-15μ	G	Spec, Assign	Rasmussen	JCP	15	(1947)	120
		-	G	Analysis	Seyfried	IEC	19	(1947)	298

		-	-	Rate of deuteration	Dibeler	JCP	16	(1948)	1008L
		-	-	Product rule, Iso	Bernstein	JCP	17	(1949)	256
		1-15 μ	G,L	Purity	Crietz	JRNB	43	(1949)	365
		-	G	Analysis	Raal	JCS	-	(1949)	2222
		700-1500	G	Spec, Assign, Freq	Sheppard	PRS	196	(1949)	195
		-	-	Analysis	Starr	AC	21	(1949)	572
		-	-	Analysis	Starr	AC	21	(1949)	572
		-	G	Analysis	Coggeshall	AC	22	(1950)	381
		-	G	Analysis	O'Neal	AC	22	(1950)	991
		10-15 μ	L	Spec	Patterson	AC	26	(1954)	823
		4-9 μ	G	Spec, Iso	Bristow	PRS	229	(1955)	525
		-	-	Freq	Brown	TFS	51	(1955)	1611
		10.36 μ	G	Analysis	Perry	AC	29	(1957)	1123
		-	-	Freq	Bellamy	JCS	-	(1958)	2463
C_4H_8	Cyclobutane	2-25 μ	G	Spec, Assign	Wilson	JCP	11	(1943)	361
		-	-	Vibrations	Bell	PRS	183	(1945)	328
		-	-	Theoretical	Cottrel	TFS	44	(1948)	716
		600-3700	-	Spec, Ident	Roberts	JACS	71	(1949)	3925
		-	-	Diffraction	Dunitz	JCP	20	(1952)	1703
		600-4500	G,L	Spec, Assign, Thermo	Rothyens	JACS	75	(1953)	5634
		-	-	Freq	O'Connor	AC	26	(1954)	1726
C_4H_8	Isobutene	-	-	Thermo	Kassel	JCP	4	(1936)	435
		-	-	Thermo	Kassel	JCP	4	(1936)	144
		-	G	Thermo	Pitzer	CR	27	(1940)	39
		1000-1800	-	Spec, Analysis	Barnes	IEC	15	(1943)	83
		1050-1750	-	Spec, Freq	Barnes	IEC	15	(1943)	659
		-	G	Quant analysis	Brattain	JAP	14	(1943)	418
		4-9 μ	G	Spec	Brady	IEC	16	(1944)	422
		2-16 μ	G	Spec, Analysis, Iso	McCarthy	JCP	12	(1944)	461
		11.23-11.44 μ	G	Ext coefficient	Nielsen	RMP	16	(1944)	307
		800-1100	-	Spec, Assign	Thompson	TFS	41	(1945)	246
		600-1800	S	Spec	Thompson	PRS	184	(1945)	3
		-	G	Thermo	Kilpatrick	JRNB	37	(1946)	163
		-	G	NCA	Kilpatrick	JRNB	38	(1947)	191
		2-15 μ	G	Spec, Assign	Rasmussen	JCP	15	(1947)	120
		-	-	Analysis	Seyfried	IEC	19	(1947)	298
		-	-	Ext coefficient	Claiborne	AC	21	(1949)	1165
		1-15 μ	G,L	Purity	Creitz	JRNB	43	(1949)	365
		-	G	Polymerization	Dainton	JPS	4	(1949)	37
		-	G	Analysis	Milsom	AC	21	(1949)	547
		700-1500	G	IR, Spec, Assign	Sheppard	PRS	196	(1949)	195

		-	-	Analysis	Starr	AC	21	(1949)	572
		-	-	Analysis	Starr	AC	21	(1949)	572
		-	-	Quant mech, Assign	Torkington	JCP	17	(1949)	1279
		7-14 μ	G	Analysis	Coggeshall	AC	22	(1950)	381
		-	G	Analysis	O'Neal	AC	22	(1950)	991
		-	-	FC	Torkington	PRS	206	(1951)	17
		-	-	Freq	El-Sabban	JCP	20	(1952)	1810
		-	-	Ident	Gargson	JACS	75	(1953)	3344
		-	-	Ident	Gresham	JACS	76	(1954)	486
		-	-	Rot barrier theory	Luft	JCP	22	(1954)	1814
		10-15 μ	G	Spec	Patterson	AC	26	(1954)	823
		-	-	Freq	Brown	TFS	51	(1955)	1611
		-	-	Analysis	Howald	JACS	77	(1955)	2046
		11.45 μ	G	Analysis	Perry	AC	29	(1957)	1123
		-	-	Freq	Bellamy	JCS	-	(1958)	2463
C_4H_8	Methylcyclopropane	6-14 μ	G	Spec	Condon	JACS	69	(1947)	965
C_4H_8DNO	N-Ethylacetamide-N-d_1	400-3600	L	Spec, Assign	Miyazawa	JCP	24	(1956)	408
C_4H_8BrNO	N-Methyl-α-bromo-propionamide	-	Sol	Spec	Fukushima	NKZ	81	(1960)	215
$C_4H_8Br_2$	1,4-Dibromobutane	14-19 μ	L	Spec	Mortimer	JACS	69	(1947)	822
		450-1500	L,S	Spec, Assign, Iso	Brown	PRS	231	(1955)	555
$C_4H_8Br_2$	1,2-Dibromo-2-methyl-propane	7-13.5 μ	Sol	Spec, Ident	Eckstein	JCP	22	(1954)	28
		-	G,L,S	NCA, Assign, Iso	Hayashi	NKZ	78	(1957)	1749
C_4H_8ClNO	N-Methyl-α-chloro-propionamide	-	-	Assign, Iso	Fukushima	NKZ	79	(1958)	1096
		-	Sol	Spec	Fukushima	NKZ	81	(1960)	215
$C_4H_8Cl_2$	1,2-Dichloroisobutane	-	-	Freq	Nakamura	JCP	26	(1957)	970
		100-4000	G,L,S	Spec, Assign, NCA	Hayashi	SA	10	(1958)	1
$C_4H_8Cl_2$	1,4-Dichlorobutane	2-15 μ	L,Sol	Group freq	Kitson	AC	25	(1953)	1470
		450-1500	L,S	Spec, Assign, Iso	Brown	AC	231	(1955)	555
$C_4H_8Cl_2$	2,3-Dichlorobutane	500-1500	L	Spec	Thompson	PRS	184	(1945)	21
$C_4H_8Cl_2O$	β,β-Dichloroethyl ether	-	-	Analysis	Saier	AC	20	(1948)	812
		8-14.5 μ	Sol	Freq	Urone	AC	24	(1952)	626
$C_4H_8I_2O$	Tetrahydrofuran-iodine	-	Sol	Association	Glusker	JCS	-	(1955)	471

$C_4H_8I_2O_2$	Dioxane-iodine	-	Sol	Association	Glusker	JCS	-	(1955)	471
$C_4H_8N_2$	Acetaldazine	-	-	Vib analysis	West	JCP	6	(1938)	1
		1400-2000	G,Sol	Spec	Blout	JACS	70	(1948)	194
$C_4H_8N_2O$	Diacetylhydrazine (anhydrate)	-	-	Planar mol form	Yamaguchi	NKZ	79	(1958)	880
$C_4H_8N_2O \cdot H_2O$	Diacetylhydrazine (monohydrate)	-	-	Config	Yamaguchi	NKZ	79	(1958)	880
		2-16 μ	S	Spec, H bond	Voter	AC	23	(1951)	1730
		3.1 μ	-	Freq	Godycki	JCP	19	(1951)	1205
$C_4H_8N_2O$	Hexahydropyrimidinone	1600-1800	S,Sol	Freq	Hall	JACS	80	(1958)	6428
$C_4H_8N_2O_2$	Dimethylglyoxime	2-6 μ	S	Spec	Nakahara	BCSJ	28	(1955)	473
		2-15 μ	S	Spec	Nakahara	BCSJ	29	(1956)	296
		400-3500	-	Spec, Struct, Freq	Borello	GCI	87	(1957)	615
$C_4H_8N_2O_2$	Diacetamide	-	-	FC	Linnett	TFS	41	(1945)	223
		3100-3600	S	Spec, Assign	Richards	JCS	-	(1947)	1248
		1600-1800	Sol	Freq CO, Hybridization effect	Hall	JACS	80	(1958)	6428
$C_4H_8N_2O_2$	N,N'-Dimethyloxamide	400-3600	S	Spec, Assign	Miyazawa	JCP	24	(1956)	408
$C_4H_8N_2O_3$	Asparagine	2-9 μ	Sol	Spec, Freq	Jencks	ABB	88	(1960)	193
$C_4H_8N_2O_3$	L-Asparagine	1358-909	Sol	Spec	Parker	SA	16	(1960)	910
$C_4H_8N_2O_3 \cdot H_2O$	L-Asparagine hydrate	1300-3700	S,Sol	Spec, Group freq	Davies	JCS	-	(1953)	480
		600-4000	-	Ident	Epp	AC	29	(1957)	1283
$C_4H_8N_2O_3 \cdot HCl$	Asparagine hydrochloride	2-9 μ	Sol	Spec, Freq	Jeneks	ABB	88	(1960)	193
$C_4H_8N_2O_3$	Ethyl N-methyl-N-nitroso-carbamate	3-6 μ	L,Sol	Freq, Assign	Barr	JCS	-	(1956)	3428
$C_4H_8N_2O_3$	Glycyl-glycine	2.8-3.6 μ	S	Spec, Assign	Kellnerq	PRS	177	(1941)	447
		4000-650	S	Spec, Struct	Blout	JACS	74	(1952)	1946
		1450-5300	S	IR (polarized)	Abbott	PRS	219	(1953)	17
		-	-	Band freq	Ehrlich	JACS	76	(1954)	5268
		-	-	Bond length & freq	Margoshes	JCP	22	(1954)	381
		-	S	Band freq, I	Asai	JPC	59	(1955)	322
		-	S	H bond	Pimental	JCP	24	(1956)	639
		2-9 μ	Sol	Spec, Freq	Jeneks	ABB	88	(1960)	193
$C_4H_8N_2O_4$	N,N'-Diacetoxyhydrazine	400-3600	S	Spec, Group assign	Miyazawa	JCP	24	(1956)	408
$C_4H_8N_2O_4$	1,1-Dinitrobutane	-	-	Dissociation const, Spec	Novikov	IANS	-	(1959)	1855
$C_4H_8N_2O_4$	1,1-Dinitro-2-methylpropane	-	-	Dissociation const, Spec	Novikov	IANS	-	(1959)	1855

$C_4H_8N_2O_6$	Nitrogen tetroxide dioxane	740-1800	S	Band freq, I	Rubin	JACS	74 (1952)	877
$C_4H_8N_2O_7$	Diethylene glycol-dinitrate	1049-1300	Sol	Spec, Anal	Pinchas	AC	23 (1951)	201
		2-15μ	Sol	Spec, Anal, Group freq	Pristera	AC	25 (1953)	844
$C_4H_8N_2S$	Allylthiourea	3-15μ	S, Sol	Spec	Ebert	JACS	74 (1952)	2806
$C_4H_8N_4S$	5-Isopropylamino-1,2,3,4-thiatriazole	700-1700	S	Spec, Struct, Assign, Taut	Lieber	CJC	36 (1958)	801
C_4H_8O	2-Butanone	.8-2.5μ	L	Spec	Sappenfield	PR	33 (1929)	37
		-	-	IR	Whitelaw	PR	34 (1929)	376
		-	-	Solvent effect	Gordy	JCP	7 (1939)	93
		-	-	Solvent effect	Gordy	JCP	7 (1939)	163
		500-1750	L	Assign	Thompson	JCS	- (1945)	640
		-	G	Freq	Hartwell	JCS	- (1948)	1436
		3.2-3.6μ	-	Spec, Anal	Soier	AC	20 (1948)	812
		-	-	H bond	Rasmussen	JACS	71 (1949)	1068
		-	Sol	Effect of alcohol on OD	Coggeshall	AC	22 (1950)	381
		2900-1200	L	I	Francis	JCP	19 (1951)	942
		2800-3000	Sol	Spec, Stretch freq	Pozefsky	AC	23 (1951)	1611
		-	G	Bond freq, I	Barrow	JCP	21 (1953)	2008
		1600-1800	Sol	Bond freq	Fuson	JACS	76 (1954)	2526
		-	L	Spec, Band effect	Haszeldine	JCS	- (1954)	4145
		-	L	Bond freq	Schubert	JACS	77 (1955)	4172
		-	S,L,G	Freq	Bellamy	JCS	- (1957)	4294
		2-15μ	G	Spec, Quant anal	Friedel	AC	29 (1957)	1362
		-	-	FC	Bottreau	JPR	19 (1958)	552
		-	Sol	I, Freq	Thompson	SA	13 (1958)	236
		18-50μ	G	Spec	Moller	CPR	249 (1959)	2534
		-	Sol	FC, Freq	Rao	JPC	63 (1959)	1311
C_4H_8O	trans-2-Butenol-1	1050-1800	-	Spec	Barnes	IEC	15 (1943)	659
		700-4000	L	Spec	Curtin	JACS	74 (1952)	4052
C_4H_8O	3-Butenol-1	1050-1800	-	Spec	Barnes	IEC	15 (1943)	659
		700-4000	L	Spec	Curtin	JACS	74 (1952)	4052
		650-5000	L	Bond freq	Zeiss	JACS	75 (1953)	897
		3μ	Sol	Freq	Oki	BCSJ	32 (1959)	567
C_4H_8O	cis-Butene-2-oxide	2-15μ	L	Spec, Group freq	Patterson	AC	26 (1954)	823
C_4H_8O	trans-Butene-2-oxide	2-15μ	L	Spec, Group freq	Patterson	AC	26 (1954)	823

C_4H_8O	β-Butylene oxide	-	-	Epoxy struct	Field	JCP	18	(1950)	1298
C_4H_8O	Butyraldehyde	.7-2.5μ	L	Carbonyl study	Ellis	JACS	51	(1929)	1384
		.8-2.5μ	L	Spec	Sappenfield	PR	33	(1929)	37
		1.1-2.1μ	L	Spec, Assign, Absorption coeff	Kellner	PRS	157	(1936)	100
		-	-	Solvent effect	Gordy	JCP	7	(1939)	93
		7-14μ	-	Hemiacetals formation	Ashdown	JCS	-	(1948)	1454
		2700-3000	Sol	Spec, Stretch freq	Pozefsky	AC	23	(1951)	1611
		-	Sol	Group & band freq	Pinchas	AC	27	(1955)	2
		2-15μ	L,Sol,S	Bond vib	Eggers	AC	28	(1956)	1328
		170-470	-	Absorption bands	Moller	CPR	250	(1960)	3977
C_4H_8O	Cyclobutanol	650-3700	L	Spec, Ident	Roberts	JACS	71	(1949)	3925
		665-5000			Zeiss	JACS	75	(1953)	897
C_4H_8O	Cyclopropylcarbinol	2-14.5μ	L	Spec, Freq	Wiberley	AC	24	(1952)	623
C_4H_8O	1,2-Epoxybutane	5-15μ	-	Spec	Carrington	AC	31	(1959)	1117
C_4H_8O	Ethyl vinyl ether	-	-	Ident	Adelman	JACS	75	(1953)	2678
		-	Sol	Freq	Davison	JCS	-	(1953)	2607
		-	-	Ident	Adelman	JACS	77	(1955)	1669
		600-4000	G,Sol	Spec, Freq	Mikawa	BCSJ	29	(1956)	110
		-	Sol	Spec, Freq	Potts	SA	15	(1959)	679
C_4H_8O	3-Buten-1-ol	2.5-13.5μ	-	Spec, Freq	Freedman	JOC	16	(1951)	1701
C_4H_8O	Isobutylene oxide	1250	-	Struct	Field	JCP	18	(1950)	1298
		2-15μ	L	Spec, Freq	Patterson	AC	26	(1954)	823
		2800-3100	Sol	Band freq	Henbest	JCS	-	(1957)	1459
		14-15μ	L	Quant analysis	Kiley	AC	29	(1957)	1553
C_4H_8O	Isobutyraldehyde	7-14μ	-	Formation of hemiacetals in mixtures	Ashdown	JCS	-	(1948)	1454
		2700-3000	Sol	Spec, Freq	Pozefsky	AC	23	(1951)	1611
		-	Sol	Freq, I	Pinchas	AC	27	(1955)	2
C_4H_8O	3-Hydroxy-2-methyl-propene-1	-	Sol	IR, Freq, Spec	Potts	SA	15	(1959)	679
C_4H_8O	1-Methoxy-1-methyl-ethylene	-	Sol	Freq, Spec, IR	Potts	SA	15	(1959)	679

C_4H_8O	1-Methyltrimethylene oxide	2-15 μ	L,Sol	Spec, Freq assign	Barrow	JACS	75	(1953)	1175
		-	L	Ident	Gaylord	JACS	76	(1954)	59
C_4H_8O	Tetrahydrofuran	-	Sol	Deuterium bonding	Searles	JACS	73	(1951)	3704
		2-15 μ	L	Spec	Shreve	AC	23	(1951)	277
		2-15 μ	L,Sol	Spec, Freq, Assign	Barrow	JACS	75	(1953)	1175
		-	-	Assign	Barker	JCS	-	(1954)	4550
		3-4 μ	L,Sol	Stretch freq	Tallent	AC	28	(1956)	953
		350-3200	S,L,G	Spec, Freq	Palm	SA	16	(1960)	459
C_4H_8OS	Ethyl thiolacetate	2-16 μ	L	Spec, Freq	Hauptschein	JACS	74	(1952)	4005
		2-16 μ	L	Spec, Freq	Noda	JACS	75	(1953)	913
		2-9 μ	Sol	Spec, Freq	Jencks	ABB	88	(1960)	193
C_4H_8OS	Tetramethylenesulfoxide	-	Sol	H bond	Tamres	JACS	81	(1959)	2100
C_4H_8OS	Thioxane	500-1500	S	Spec, Struct	Hendra	JCS	-	(1960)	5105
$C_4H_8O_2$	Aldol	6800-7300	Sol	Spec, H bond	Hilbert	JACS	58	(1936)	548
$C_4H_8O_2$	Butane-2-ol-3-one	-	-	Ident	Kuhn	JACS	76	(1954)	328
$C_4H_8O_2$	1,4-cis-Butene-2-diol	8.87-9.44 μ	Sol	Relative absorbances analysis	Spell	AC	31	(1959)	1600
$C_4H_8O_2$	Butyric acid	0.8-2.5 μ	L	Spec	Sappenfield	PR	33	(1929)	37
		1-13 μ	G	Spec, H bond	Herman	JCP	8	(1940)	252
		2800-3100	Sol	Freq, Spec	Pozefsky	AC	23	(1951)	1611
		6.82-13.67 μ	L	Freq, I, Spec	Fowler	JOSA	43	(1953)	1054
		200-1400	L	Spec, Assign	Hadzi	PRS	216	(1953)	247
		-	-	Freq	Bratoz	SA	8	(1956)	249
		.9-3 μ	Sol	IR	Holman	AC	28	(1956)	1533
		3500-670	L,S	Spec	Corish	JCS	-	(1957)	1746
		2-15 μ	G	Spec	Stephens	AC	29	(1957)	776
		-	Sol	Freq, I	Wenograd	JACS	79	(1957)	5844
		8-13 μ	-	Spec	Eliel	SA	10	(1958)	423
		700-1500	G	Spec, Freq, Assign	Hadzi	SA	12	(1958)	162
		-	-	Freq, Assign	Michinori	BCSJ	32	(1959)	950
		-	G	H bond	Pross	SA	16	(1960)	563
$C_4H_8O_2$	1,4-Dioxane	52-152 μ	L,Sol	Trans, Dispers	Cartwright	PRS	154	(1936)	138
		2.5-6.5 μ	L	H bond	Gordy	JCP	4	(1936)	769
		850-4500	G,L	Spec	McKinney	JACS	59	(1937)	481
		2837-3700	L	C-H band freq	Errera	TFS	34	(1938)	728
		2830-2990	L,Sol,G	Spec, Ext coefficients	Fox	PRS	167	(1938)	257

		-	-	H bond	Freymann	JCP	6	(1938)	497
		3.3-11.7μ	L,Sol	Spec, H bond	Gordy	JACS	60	(1938)	605
		-	-	Effect as solvent	Gordy	JCP	7	(1939)	99
		-	-	Effect as solvent	Gordy	JCP	7	(1939)	163
		-	-	Effect as solvent	Gordy	JCP	7	(1939)	93
		-	-	H bond	Errera	JCP	8	(1940)	63
		-	-	Freq	Fugassi	JPC	46	(1942)	630
		1050-1800	-	Spec	Barnes	IEC	15	(1943)	659
		3-20μ	L	Spec	Torkington	TFS	41	(1945)	184
		1.4-15μ	G,L	Spec	Friedel	JACS	69	(1947)	604
		1500-700	G,L	Spec, Assign, FC	Ramsay	PRS	190	(1947)	562
		-	-	Assign	Ramsay	TFS	44	(1948)	289
		6.5-13μ	L	Spec, Assign	Burket	JACS	72	(1950)	4397
		2578-2689	Sol	H bond	Searles	JACS	73	(1951)	3704
		2-15μ	L	Spec, Struct	Shreve	AC	23	(1951)	277
		2-8μ	L	Solvent	Smith	JACS	73	(1951)	2435
		2.5-37μ	L,S	Spec, Assign	Malherbe	JACS	74	(1952)	4408
		15-25μ	L	Transparent solvent	Marrison	JSI	29	(1952)	233
		2-15μ	L	Spec	Pristera	APS	6	(1952)	29
		2-16μ	L	Spec	Vaughan	JOC	18	(1953)	382
		8-12μ	L	Spec	Haszeldine	JCS	-	(1954)	4145
		-	-	Freq	Brown	JCS	-	(1955)	959
		2.5-11μ	Sol	Spec	Potts	AC	28	(1956)	1255
		-	-	Solvent	Matheson	AC	30	(1958)	63
		700-4000	Sol,L	Freq, Ext coefficient	DeMaine	CJC	38	(1960)	1921
		500-1500	L	Spec, Struct	Hendra	JCS	-	(1960)	5105
$C_4H_8O_2$	Ethyl acetate	0.59-2.8μ	L	Visible IR correlation	Ellis	PR	32	(1928)	906
		-	-	Freq	Bonino	TFS	25	(1929)	876
		0.7-2.5μ	L	C=O study	Ellis	JACS	51	(1929)	1384
		0.8-2.5μ	L	Spec	Sappenfield	PR	33	(1929)	37
		1-14μ	L	Spec	Stair	JRNB	15	(1935)	295
		-	-	Effect on OH absorption	Gordy	JCP	4	(1936)	749
		4-8μ	L	No exchange reaction	Barr	PR	51	(1937)	685
		2.5-5.3μ	L	Spec, H bond	Gordy	JACS	59	(1937)	464
		5.6-6μ	-	Spec, H bond	Gordy	JCP	5	(1937)	284
		2.5-6μ	L	Spec, H bond	Williams	JACS	59	(1937)	817
		5.4-6.1μ	L,Sol	Spec, H bond	Gordy	JACS	60	(1938)	605
		-	-	Solvent effect	Gordy	JCP	7	(1939)	93
		-	-	Solvent effect	Gordy	JCP	7	(1939)	99
		-	-	Solvent effect	Gordy	JCP	7	(1939)	167
		5.5-6.5μ	L	Spec, H bond	Gordy	JCP	8	(1940)	516
		1050-1800	-	Spec	Barnes	IEC	15	(1943)	659

		500-1750	L	Assign	Thompson	JCS	-	(1945)	640
		1768	G	Freq	Hartwell	JCS	-	(1948)	1436
		5.7μ	-	Band width	Anderson	AC	20	(1948)	998
		2.8-3.9μ	L	Spec	Adelman	JOC	14	(1949)	1057
		1700	Sol	I	Richards	TFS	45	(1949)	874
		1650-1800	Sol	Ext coefficient	Cross	TFS	47	(1951)	354
		1200-2900	L	I	Francis	JCP	19	(1951)	942
		2800-3000	Sol	Spec, Freq	Pozefsky	AC	23	(1951)	1611
		15-25μ	L	Transparent solvent	Marrison	JSI	29	(1952)	233
		1700-1800	Sol	Freq	Short	JCS	-	(1952)	206
		1734-1772	G,Sol	Freq, I	Barrow	JCP	21	(1953)	2008
		1200-2000	Sol	Freq	Bender	JACS	75	(1953)	5986
		-	Sol	Freq, H bond	Searles	JACS	75	(1953)	71
		-	Sol	Freq, I	Hirota	BCSJ	27	(1954)	295
		-	-	Band freq	Karpovich	JCP	22	(1954)	1767
		-	Sol	C=O freq	Felton	JCS	-	(1955)	2170
		-	L	C=O freq	McBee	JACS	77	(1955)	755
		-	Sol	I	Russell	JCS	-	(1955)	479
		700-3500	Sol	Spec, Freq, Assign	Nolin	CJC	34	(1956)	1392
		1500-5000	Sol	Group freq	Briggs	AC	29	(1957)	904
		-	G,Sol	Freq	O'Sullivan	JCS	-	(1957)	4144
		2-15μ	Sol	Spec, Freq	Abarmovitch	CJC	36	(1958)	151
		-	Sol	Freq, I	Thompson	SA	13	(1958)	236
		-	Sol	Freq	Horak	TEL	3	(1959)	19
		-	Sol	I, Freq	Mirone	AC	49	(1959)	52
		-	G,L	Freq	Nukada	NKZ	80	(1959)	1112
		-	Sol	I	Gutjahr	SA	16	(1960)	1209
		2-9μ	Sol	Spec, Freq	Jeneks	ABB	88	(1960)	193
		800-1500	Sol	Assign	Katritzky	SA	16	(1960)	954
		-	-	Assign	Katritzky	SA	16	(1960)	965
$C_4H_8O_2$	1-Hydroxy-2-butanone	-	-	Freq	Barnes	IEC	15	(1943)	659
$C_4H_8O_2$	Isobutyric acid	1300-2000	Sol	Spec	Gillette	JACS	58	(1936)	1143
		2800-3100	Sol	Freq, Spec	Pozefsky	AC	23	(1951)	1611
		-	Sol	Freq, I	Wenograd	JACS	79	(1957)	5844
		8-13μ	-	Spec	Eliel	SA	10	(1958)	423
$C_4H_8O_2$	Isopropyl formate	1752	G	Freq	Hartwell	JCS	-	(1948)	1436
$C_4H_8O_2$	2-Methyl-1:3-dioxalan	400-3100	G,L,Sol	Freq, Assign	Barker	JCS	-	(1959)	802
$C_4H_8O_2$	4-Methyl-1:3-dioxalan	400-3100	G	Freq, assign	Barker	JCS	-	(1959)	802

$C_4H_8O_2$	Methyl propionate	-	-	IR	High	PR	38	(1931)	1837
		500-1750	L	Assign	Thompson	JCS	-	(1945)	640
		1767	G	Freq	Hartwell	JCS	-	(1948)	1436
		1700	Sol	I, Vibrations	Richards	TFS	45	(1949)	874
		1600-1800	Sol	Ext coefficient	Cross	TFS	47	(1951)	354
		1200-2900	L	I	Francis	JCP	19	(1951)	942
		2800-3000	Sol	Freq, Spec	Pozefsky	AC	23	(1951)	1611
		6.81-12.35μ	L	Spec, Freq	Fowler	JOSA	43	(1953)	1054
		-	Sol	Freq, H bond	Searles	JACS	75	(1953)	71
		-	Sol	Freq	Russell	JCS	-	(1955)	479
		2-15μ	Sol	Assign	Walton	JACS	79	(1957)	3985
		-	Sol	Freq, I	Thompson	SA	13	(1958)	236
		800-1500	Sol	Assign	Katritzky	SA	16	(1960)	954
		-	-	Assign	Katritzky	SA	16	(1960)	964
$C_4H_8O_2$	n-Propyl formate	500-1750	L	Assign	Thompson	JCS	-	(1945)	640
		1752	G	Freq	Hartwell	JCS	-	(1948)	1436
		2800-3150	Sol	Freq, Spec	Pozefsky	AC	23	(1951)	1611
		-	-	Freq, Iso	Karpovich	JCP	22	(1954)	1767
		-	Sol	Freq	Russell	JCS	-	(1955)	479
		800-1500	Sol	Assign	Katritzky	SA	16	(1960)	954
		-	-	Assign	Katritzky	SA	16	(1960)	964
$C_4H_8O_2$	Tetrahydrofuran-2-ol	3500-3700	Sol	H bond	Barker	TE	7	(1959)	10
$C_4H_8O_2$	Tetrahydrofuran-3-ol	3500-3700	Sol	H bond	Barker	TE	7	(1959)	10
$C_4H_8O_2S$	Methyl allyl sulfone	6.10-14.12μ	L	Freq, I	Price	JACS	75	(1950)	4750
$C_4H_8O_3$	1,4-Anhydroerythritol	3500-3650	Sol	H bond	Brimacombe	TE	4	(1958)	351
$C_4H_8O_3$	1,4-Anhydro-L-threitol	3500-3650	Sol	H bond	Brimacombe	TE	4	(1958)	351
$C_4H_8O_3$	Butyryl hydroperoxide	5-15μ	Sol	Spec	Minkoff	PRS	224	(1954)	176
		2-15μ	G	Spec	Stephens	AC	29	(1957)	776
$C_4H_8O_3$	1,3-Dioxan-5-ol	3500-3650	Sol	H bond	Brimacombe	TE	4	(1958)	351
		3500-3700	Sol	H bond	Barker	TE	7	(1959)	10
$C_4H_8O_3$	Ethyl glycolate	1000-1500	Sol	Freq	Goulden	SA	16	(1960)	715
$C_4H_8O_3$	Ethylene glycol monoacetate	6900-7200	Sol	Spec	Pauling	JACS	57	(1935)	1464

		-	Sol	Spec, Struct	Wulf	JACS	58	(1936)	94
		3μ	Sol	H bond, Freq	Flett	SA	10	(1958)	21
$C_4H_8O_3$	β-Hydroxybutyric acid	2-15μ	-	Spec, H bond	Mucke	JPRC	9	(1959)	16
$C_4H_8O_3$	α-Hydroxyisobutyric acid	1100-1800	-	Spec, Freq	Barnes	IEC	15	(1943)	659
		-	-	Ident	Freeman	JACS	77	(1955)	2334
		2-15μ	-	Spec, H bond	Mucke	JPRC	9	(1959)	16
$C_4H_8O_3$	Isobutylene ozonide	2-15μ	G	Spec	Garvin	JPC	60	(1956)	807
$C_4H_8O_3$	β-Methoxypropionic acid	-	Sol	H bond	Oki	BCSJ	33	(1960)	119
$C_4H_8O_4$	Acetic acid dimer	-	Sol	I	Barrow	JACS	76	(1954)	5248
		-	-	NCA	Miyazawa	JACS	81	(1959)	74
$C_4H_8O_4$	2,3-Dihydroxydioxan	-	S	Freq	Head	JCS	-	(1955)	1036
$C_4H_8O_4S_2$	1,4-Dithiane disulfone	-	-	Ident	Parham	JACS	75	(1953)	2065
$C_4H_8O_4Se_2$	Diseleniumdiacetic acid	2-40μ	-	Assign	Bergson	ARK	13	(1958)	11
C_4H_8S	2,3-Epithiobutane	3.36-11.27μ	-	Freq	Price	JACS	75	(1953)	2396
C_4H_8S	Ethyl vinyl thioether	600-4000	G,Sol	Spec, Freq	Mikawa	BCSJ	29	(1956)	110
C_4H_8S	Methyl allyl sulfide	5.48-14.14μ	L	Freq	Price	JACS	75	(1953)	4750
C_4H_8S	Thiacyclopentane	-	-	Spec	Brich	JCS	-	(1951)	2556
		-	-	Freq, Thermo	Hubbard	JACS	74	(1952)	6025
		2-25μ	-	Spec	Haines	JPC	58	(1954)	270
$C_4H_8S_2$	Dithiane	500-1500	S	Spec, Struct	Hendra	JCS	-	(1960)	5105
$C_4H_8S_2$	Ethyl dithioacetate	864-2955	L	Freq	Marvel	JACS	77	(1955)	5997
$C_4H_8S_2Si_2$	Tetramethylcyclo-disilthiane	400-3200	S,Sol	Assign	Kriegsmann	ZAUA	300	(1959)	210
C_4H_9D	Isobutane-d_1	800-4000	G	IR, Spec	Condon	JCP	19	(1951)	1010
		3-35μ	G	Spec, Assign	Evans	CJC	34	(1956)	1037
		-	G	Spec, Struct, Mol consts	Lide	JCP	33	(1960)	1519
C_4H_9DO	n-Butanol-O-d_1	2-5μ	L	Spec	Williams	JACS	64	(1942)	2684

		915	L	O-D deformation band	Quinan	JCP	21	(1953)	1896
		650-4000	L	Spec	Streitwieser	JACS	75	(1953)	5014
		650-4000	L,G	Freq, I	Quinan	AC	26	(1954)	1762
		-	-	Analysis	Strietwieser	JACS	77	(1955)	1117
C_4H_9DO	sec-Butanol-O-d_1	860-974	G,L	O-D deformation band	Quinan	JCP	21	(1953)	1896
		650-4000	G,L	Freq, I	Quinan	AC	26	(1954)	1762
		-	G	Freq	Tarte	JCP	26	(1957)	962
C_4H_9DO	n-Butyl alcohol-β-d_1	8-13μ	-	Spec	Eliel	SA	10	(1958)	423
C_4H_9DO	t-Butyl alcohol-d_1	-	-	Band freq	Hine	JACS	76	(1954)	612
		-	Sol	Exchange equilibrium data	Kwart	JACS	76	(1954)	5998
		-	G	Freq	Tarte	JCP	26	(1957)	962
		300-4000	Sol,L,S	Freq, Spec, Assign	Pritcharol	JPC	64	(1960)	795
C_4H_9DO	Isobutyl alcohol-α-d_1	8-13μ	-	Spec	Eliel	SA	10	(1958)	423
C_4H_9Br	1-Bromo-2-methylpropane	7-13.5μ	Sol	Spec, Ident	Eckstein	JCP	22	(1954)	28
C_4H_9Br	n-Butyl bromide	0-2.5μ	L	Spec	Ellis	PR	23	(1924)	48
		1-14μ	L	Spec	Stair	JRNB	15	(1935)	295
		14.5-19μ	L	Spec	Mortimer	JACS	69	(1947)	822
		720-750	L	Band freq	Wiberly	AC	22	(1950)	841
		-	L	Ident	Streitwieser	JACS	75	(1953)	5014
		500-1500	L,S	Spec, Iso	Brown	TFS	50	(1954)	535
		-	L	Mol ratio	Yoshino	CJC	35	(1957)	339
C_4H_9Br	t-Butyl bromide	-	-	Freq	Fugassi	JPC	46	(1942)	630
		14-20.5μ	L	Spec	Mortimer	JACS	69	(1947)	822
		450-3500	L	Spec, Assign	Sheppard	TFS	46	(1950)	527
		-	-	Assign, Freq	Tobin	JACS	75	(1953)	1788
		7-13.5μ	Sol	Spec, Ident	Eckstein	JCP	22	(1954)	28
$C_4H_9Br^{79}$	t-Butyl bromide (isotopic)	-	-	Microwave	Williams	JCP	18	(1950)	994
$C_4H_9Br^{81}$	t-Butyl bromide (isotopic)	-	-	Microwave	Williams	JCP	18	(1950)	994
C_4H_9Br	Isobutyl bromide	0-2.5μ	L	Spec	Ellis	PR	23	(1924)	48
		14-17μ	L	Spec	Mortimer	JACS	69	(1947)	822
		-	-	Freq, Iso	Szasz	JCP	23	(1955)	2449

C_4H_9Cl	sec-Butyl chloride	-	-	Freq, Rot iso	Brown	TFS	50 (1954)	1164
		-	-	Ref	Smith	JACS	76 (1954)	4564
		-	-	Freq	Nakamura	JCP	26 (1957)	970
C_4H_9Cl	t-Butyl chloride	-	-	Band freq	Fugassi	JPC	46 (1942)	630
		-	-	Freq	Sheppard	TFS	46 (1950)	429
		450-3500	L	Spec, Assign	Sheppard	TFS	46 (1950)	527
		-	-	Analysis	Schmerling	JACS	75 (1953)	4275
		-	-	Assign, Freq	Tobin	JACS	75 (1953)	1788
		-	-	Freq, Rot iso	Brown	TFS	50 (1954)	1164
		-	-	Analysis	Howald	JACS	77 (1955)	2046
		-	-	Freq	Nakamura	JCP	26 (1957)	970
$C_4H_9Cl^{35}$	t-Butyl chloride (isotopic)	-	-	Microwave	Williams	JCP	18 (1950)	994
$C_4H_9Cl^{37}$	t-Butyl chloride (isotopic)	-	-	Microwave	Williams	JCP	18 (1950)	994
C_4H_9Cl	Isobutyl chloride	0-2.5μ	L	Spec	Ellis	PR	23 (1924)	48
		-	-	Freq, Rot iso	Brown	TFS	50 (1954)	1164
		-	-	Freq, Rot iso	Szasz	JCP	23 (1955)	2449
C_4H_9Cl	1-Chlorobutane	0-2.5μ	L	Spec	Ellis	PR	23 (1924)	48
		-	-	Ident	Smith	JACS	76 (1954)	4564
C_4H_9Cl	1-Chloro-2-methylpropane	-	-	Freq	Nakamura	JCP	26 (1957)	970
$C_4H_9ClFO_2PS$	-Fluoropropylmethyl-phosphorochloridothionate	740-1500	Sol	Assign	McIvor	CJC	37 (1959)	869
C_4H_9ClO	t-Butyl hypochlorite	665-5000	L	Freq	Ory	AC	32 (1960)	509
$C_4H_9ClO_2S$	n-Butanesulfonyl chloride	-	-	Spec, Assign	Geiseler	ZE	63 (1959)	1140
$C_4H_9ClO_2S$	1-Methylpropanesulfonyl chloride	-	-	Spec, Assign	Geiseler	ZE	64 (1960)	421
$C_4H_9ClO_4S_2$	1-Methylsulfonyl-2-propanesulfonyl chloride	690-1340	S	Ident	Marvel	JACS	76 (1954)	61
$C_4H_9ClO_4S_2$	2-Methylsulfonyl-1-propanesulfonyl chloride	685-1335	S	Ident	Marvel	JACS	76 (1954)	61

$C_4H_9Cl_2OPS$	n-Butylphosphorodi-chloridothionate	740-1500	L	Assign	McIvor	CJC	37 (1959)	869
$C_4H_9Cl_3OSi$	Trichlorosilylethyl ethyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_4H_9Cl_3OSi$	Trichlorosilylpropyl methyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_4H_9Cl_3Si$	n-Butyltrichlorosilane	2-16 μ	Sol	Freq, Spec, Struct	Smith	SA	16 (1960)	87
C_4H_9F	t-Butyl fluoride	-	G	Freq, Struct	Anderson	ACS	7 (1953)	643
		-	-	Assign, Struct	Lide	JCP	29 (1958)	914
		1.7-30 μ	G	Assign, Spec	Mann	JMS	2 (1958)	575
C_4H_9I	1-Iodobutane	0-2.5 μ	L	Spec	Ellis	PR	23 (1924)	48
		720-750	L	Freq	Wiberley	AC	22 (1950)	841
C_4H_9I	2-Iodobutane	-	-	Freq	Fugassi	JPC	46 (1942)	630
C_4H_9I	2-Iodo-2-methylpropane	450-3500	L	Spec, Assign	Sheppard	TFS	46 (1950)	527
		-	-	Assign, Freq	Tobin	JACS	75 (1953)	1788
C_4H_9I	Isobutyl iodide	0-2.5 μ	L	Spec	Ellis	PR	23 (1924)	48
		-	-	Freq, Iso	Szasz	JCP	23 (1955)	2449
$C_4H_9I^{127}$	1-Iodo-1,1-dimethylethane (isotopic)	-	-	Microwave	Williams	JCP	18 (1950)	994
$C_4H_9I_2NO$	Dimethylacetamide-iodine	1600-1690	Sol	Complex formation	Shrrulback	JACS	82 (1960)	4484
C_4H_9N	cis-Crotylamine	2.95-14.3 μ	L	Freq	Ettlinger	JACS	77 (1955)	1831
C_4H_9N	trans-Crotylamine	2.95-12.2 μ	L	Freq	Ettlinger	JACS	77 (1955)	1831
C_4H_9N	2,2-Dimethylaziridine	2.7-8.1 μ	L,Sol	Spec	Meguerian	JACS	73 (1951)	2121
C_4H_9N	2-Ethylaziridine	2.7-8.1 μ	L,Sol	Spec	Meguerian	JACS	73 (1951)	2121
C_4H_9N	Pyrrolidine	600-4000	L,Sol	Spec	Heacock	CJC	34 (1956)	1782
		3-4 μ	L,Sol	Freq	Tallent	AC	28 (1956)	953
		2.16-17.32 μ	L	Purification and physical properties	Helm	JPC	62 (1958)	858

		2900-3100	L	Freq	Hill	JCS	-	(1958)	760
		320-3500	G,L,S	Assign, Thermo	Evans	JCP	31	(1959)	650
		3.38-3.60μ	S	Freq	Wright	JOC	24	(1959)	1362
C_4H_9NO	n-Butanone oxime	2.78μ	-	Hydroxyl band, Oximes data	Goddu	AC	30	(1958)	1707
C_4H_9NO	n-Butyradehyde oxime	2.78μ	-	Hydroxyl band, Oximes data	Goddu	AC	30	(1958)	1707
C_4H_9NO	n-Butyramide	1500-3600	S,Sol	Assign	Richards	JCS	-	(1947)	1248
		-	-	FC	Richards	TFS	44	(1948)	40
		-	-	Ident	Naylor	JACS	75	(1953)	5392
		-	Sol	Ident	Badger	PNAS	40	(1954)	12
		-	-	Ident	Snyder	JACS	76	(1954)	118
C_4H_9NO	N,N-Dimethylacetamide	1639	Sol	C=O freq, I	Barrow	JCP	21	(1953)	2008
		1600-1800	Sol,L	Freq	Hall	JACS	80	(1958)	6428
		-	Sol	Freq, I	Thompson	SA	13	(1958)	236
		-	Sol	Freq	Horak	TEL	3	(1959)	19
		-	G	Solvent effect on freq	Caldow	PRS	254	(1960)	1
		51-59μ	Sol	I	Schmulbach	JCP	64	(1960)	1956
$C_4H_9NO.HCl$	N,N-Dimethylacetamide hydrochloride	-	-	Struct	Grivas	CJC	37	(1959)	1260
C_4H_9NO	N-Ethylacetamide	2700-3900	Sol	Spec, H bond	Buswell	JACS	60	(1938)	2444
		2800-3600	Sol	H bond, Spec	Rodebush	JPC	43	(1939)	219
		-	-	FC	Richards	TFS	44	(1948)	40
		-	Sol	Freq	Klemperer	JACS	76	(1954)	5846
		-	L,S	Freq	Robson	JACS	77	(1955)	498
		-	L,Sol	Freq, H bond	Cannon	JCP	24	(1956)	491
		1200-8000	Sol	Assign	Hecht	PRS	235	(1956)	174
		400-3600	L	Spec, Assign	Miyazawa	JCP	24	(1956)	408
		400-3400	L,Sol	Spec, Freq assign, I	Beer	JCP	29	(1958)	1097
C_4H_9NO	Isobutyramide	-	-	Ident	Naylor	JACS	75	(1953)	5392
C_4H_9NO	2-Methyl-2-nitroso-propane	-	-	Freq	Jauder	JCS	-	(1954)	919
C_4H_9NO	N-Methylpropionamide	1200-800	Sol	Assign, Freq	Hecht	PRS	235	(1956)	174
		600-3400	L,Sol	Spec, Freq assign	Beer	JCP	29	(1958)	1097
C_4H_9NO	Morpholine	1.4-15μ	G,L	Spec	Friedel	JACS	69	(1947)	604

		650-1820	L	Spec	Cannon	SA	4	(1951)	373
		-	Sol	Freq, I	Russell	JCS	-	(1955)	483
		600-4000	L,Sol	Spec	Heacock	CJC	34	(1956)	1782
		3-4μ	L,Sol	Freq	Tallent	AC	28	(1956)	953
		2-8μ	Sol	Spec	Nakanishi	BCSJ	30	(1957)	403
		2-16μ	Sol	Spec, Freq	Dupuy	JAOC	35	(1958)	99
		2900-3100	L	Freq	Hill	JCS	-	(1958)	760
$C_4H_9NO.HBr$	Morpholine hydrobromide	2.5-15.5μ	S	Spec	Wright	APS	9	(1955)	105
$C_4H_9NO.HCl$	Morpholine hydrochloride	600-4000	S	Spec, Freq	Heacock	CJC	34	(1956)	1782
		2-8μ	Sol	Spec	Nakanishi	BCSJ	30	(1957)	403
		600-4000	S	Freq, Assign	Stone	JCS	-	(1958)	52
$C_4H_9NO.HCl$	Ethylimino acetate hydrochloride	-	-	Freq	Witkop	JACS	76	(1954)	5597
C_4H_9NOS	Methylthio dimethylamino-formate	-	Sol	Freq	Baker	JACS	82	(1960)	1923
C_4H_9NOSi	Trimethylisocyanato-silane	-	-	Freq, Assign	Widmaier	ZAUA	300	(1959)	194
$C_4H_9NO_2$	DL-α-Amino-n-butyric acid	667-5000	Sol	Spec, Freq, Struct	Leifer	JACS	79	(1957)	5098
		6-11μ	Sol	Spec	Parker	N	187	(1960)	386
		1538-909	Sol	Spec	Parker	SA	16	(1960)	910
		-	Sol,L	Spec, Assign	Takenishi	NKZ	81	(1960)	858
$C_4H_9NO_2.HCl$	DL-α-Aminobutyric acid hydrochloride	-	Sol,L	Spec, Assign	Takenishi	NKZ	81	(1960)	858
$C_4H_9NO_2$	DL-β-Aminobutyric acid	667-5000	Sol	Spec, Freq, Struct	Leifer	JACS	79	(1957)	5098
		1538-909	Sol	Spec	Parker	SA	16	(1960)	386
$C_4H_9NO_2$	γ-Aminobutyric acid	667-5000	Sol	Spec, Freq, Struct	Leifer	JACS	79	(1957)	5098
		6-11μ	Sol	Spec	Parker	N	187	(1960)	386
		1538-909	Sol	Spec	Parker	SA	16	(1960)	910
		1350-1550	S	Spec, Ident	Watson	SA	16	(1960)	1322
$C_4H_9NO_2$	α-Aminoisobutyric acid	667-5000	Sol	Spec, Freq, Struct	Leifer	JACS	79	(1957)	5098
		400-4000	S	Spec, Freq, Assign	Tsuboi	BCSJ	32	(1959)	1044
		1538-909	Sol	Spec	Parker	SA	16	(1960)	910
$C_4H_9NO_2$	Butyl nitrite	0-2.5μ	L	Spec	Ellis	PR	23	(1924)	48

		-	-	Freq	Fugassi	JPC	46	(1942)	630
		2-25 μ	G	Rot iso	Tarte	JCP	20	(1952)	1570
		5.75-8.10 μ	L		Haszeldine	JCS	-	(1954)	691
			G,L,Sol	Assign, Struct	Haszeldine	JCS	-	(1955)	4172
$C_4H_9NO_2$	sec-Butyl nitrite	2-25 μ	G	Rot iso	Tarte	JCP	20	(1952)	1570
$C_4H_9NO_2$	t-Butyl nitrite	2-25 μ	G	Rot iso	Tarte	JCP	20	(1952)	1570
$C_4H_9NO_2$.HCl	N,N-Dimethylglycine hydrochloride	667-5000	Sol	Spec, Freq, Struct	Leifer	JACS	79	(1957)	5098
		1350-1550	S	Spec, Ident	Watson	SA	16	(1960)	1322
$C_4H_9NO_2$	Ethoxyacetamide	-	Sol	Freq, I	Brown	JPC	63	(1959)	1324
$C_4H_9NO_2$.HCl	Ethyl glycinate hydrochloride	2-16 μ	S	Spec	Muller	AC	28	(1956)	37
		2-8 μ	Sol	Spec	Nakanishi	BCSJ	30	(1957)	403
$C_4H_9NO_2$	Isobutyl nitrite	2-25 μ	G	Rot iso	Tarte	JCP	20	(1952)	1570
$C_4H_9NO_2$	N-Methylglycine methyl ester	2-15 μ	-	Freq, Struct	Rasmussen	JACS	71	(1949)	1073
$C_4H_9NO_2$	N-Methylurethane	2.5-6 μ	L,Sol	Freq assign	Barr	JCS	-	(1956)	3428
		3 μ	Sol	Band study	Russell	SA	8	(1956)	138
		1600-1800	Sol,L	Freq	Hall	JACS	80	(1958)	6428
$C_4H_9NO_2$	1-Nitrobutane	-	L	Freq, I	Haszeldine	JCS	-	(1953)	2525
$C_4H_9NO_2S$	DL-Homocysteine	1538-909	Sol	Spec	Parker	SA	16	(1960)	910
$C_4H_9NO_2S$	S-Methylcysteine	670-1800	S	Spec, Freq	Short	JCS	-	(1951)	1746
$C_4H_9NO_3$	DL-Allothreonine	2-16 μ	S	Spec, Config	Bolhofer	JACS	76	(1954)	1322
		-	-	Struct, Ident	Prostenik	JACS	77	(1955)	1856
$C_4H_9NO_3$	Butyl nitrate	1-7.5 μ	L	Spec, Assign	Plyler	PR	34	(1929)	599
		2-15 μ	Sol	Spec, Ext coefficient	Carrington	SA	16	(1960)	1279
$C_4H_9NO_3$	β-Hydroxy-α-aminobutyric acid	1350-1550	S	Spec, Ident	Watson	SA	16	(1960)	1322
$C_4H_9NO_3$	DL-Threonine	1-12 μ	Sol	Spec, Freq, Assign	Lacher	JPC	58	(1954)	206
		-	-	Struct, Ident	Prostenik	JACS	77	(1955)	1856
		600-4000	S	Ident	Epp	AC	29	(1957)	1283

$C_4H_9NO_3$	L-Threonine	1620	-	Freq, Bond length	Margoshes	JCP	22	(1954)	381
		6-11μ	Sol	Spec	Parker	N	187	(1960)	386
$C_4H_9NO_3S$	5-Methylcystein sulfoxide	670-1800	S	Spec, Freq	Short	JCS	-	(1951)	1746
C_4H_9NS	N-Ethylthioacetamide	-	-	Ident	Moore	JCS	-	(1954)	2082
		-	-	Ident	Moore	JCS	-	(1954)	2089
C_4H_9NSSi	Trimethylsilyl isothiocyanate	280-3000	-	Spec, Struct, Assign	Goubean	ZAUA	294	(1958)	96
C_4H_9NSi	Isocyanotrimethylsilane	2-16μ	L	Spec, Freq	McBride	JACS	74	(1952)	5247
		-	-	Ident	Prober	JACS	77	(1955)	3224
C_4H_9NSi	Trimethylcyanosilane	2200	-	Assign, Struct	Linton	DA	19	(1958)	687
$C_4H_9N_3O$	Acetone semicarbazone	700-3500	S	Ident, Assign	Davison	JCS	-	(1955)	3389
$C_4H_9N_3O$	3-Azido-2-Butanol	-	-	Struct, Freq	Vander Werf	JACS	76	(1954)	1231
$C_4H_9N_3O_2$	Creatine	5-10μ	S	Spec, Assign	Klotz	JPCC	52	(1948)	961
$C_4H_9N_3O_2.HCl$	Creatine hydrochloride	680-3400	S	Spec	Mold	JACS	77	(1955)	178
$C_4H_9N_3S$	4-Allylthiosemicarbazide	700-1700	S	Spec, Struct, Config, Assign, Taut	Lieber	CJC	36	(1958)	801
$C_4H_9N_5$	1-Isopropyl-5-aminotetrazole	2-6.6μ	S	Freq	Murphy	JOC	19	(1954)	1807
$C_4H_9N_5$	1-Methyl-5-dimethylaminotetrazole	2-6.6μ	S	Freq	Murphy	JOC	19	(1954)	1807
$C_4H_9N_5$	1-n-Propyl-5-aminotetrazole	2-6.6μ	S	Freq	Murphy	JOC	19	(1954)	1807
$C_4H_9N_5.HCl$	1,4-Dimethyl-5-methyliminotetrazole hydrochloride	2-6.6μ	S	Freq	Murphy	JOC	19	(1954)	1807
$C_4H_9N_5.HCl$	1-Methyl-5-dimethylaminotetrazole hydrochloride	2-6.6μ	S	Freq	Murphy	JOC	19	(1954)	1807
$C_4H_9O_3S$	n-Butane-1-sulfonate	500-4000	S	Freq	Fujimori	BCSJ	32	(1959)	850

$C_4H_9O_4P$	Ethylethylene phosphate	-	Sol	Assign	Jones	JCS	-	(1960)	4376
C_4H_{10}	n-Butane	2800-3050	G	Freq	Meyer	JOSA	15	(1927)	257
		-	-	C-H freq	Bonino	TFS	25	(1929)	876
		-	-	Thermo	Beeck	JCP	4	(1936)	680
		-	-	Thermo	Kassel	JCP	4	(1936)	435
		-	-	Rotational entropy	Kassel	JCP	4	(1936)	276
		-	-	Thermo, Chem equil rev	Pitzer	CR	27	(1940)	39
		-	-	Freq, Thermo	Pitzer	JCP	8	(1940)	711
		-	-	Quant anal	Brattain	JAP	13	(1942)	699
		800-1900	-	Spec, Anal	Barnes	IEC	15	(1943)	83
		700-1500	-	Spec	Barnes	IEC	15	(1943)	659
		-	G	Quant anal	Brattain	JAP	14	(1943)	418
		-	-	Thermo	Dailey	JACS	65	(1943)	44
		-	-	Thermo	Aston	JCP	12	(1944)	336
		4-9μ	G	Spec	Brady	IEC	16	(1944)	422
		-	G	Anal	Jones	IEC	17	(1945)	349
		-	-	Freq	Kellner	TFS	41	(1945)	217
		-	-	Assign, FC	Ahonen	JCP	14	(1946)	625
		-	-	Thermo	Aston	JCP	14	(1946)	67
		2-14μ	-	Spec, Group freq	Honig	JPC	50	(1946)	119
		-	-	Ext coeff, Anal	Lee	IEC	18	(1946)	659
		-	-	Pressure broadening, Spec	Coggeshall	JCP	15	(1947)	65
		-	L	Anal	Glasgow	JRNB	38	(1947)	537
		-	-	Stretch freq, FC	Ramsay	PRS	190	(1947)	245
		-	G	Anal	Seyfried	IEC	19	(1947)	298
		-	-	Isomerism	Otvos	JCP	16	(1948)	745
		2-15μ	G	Spec, Assign	Rasmussen	JCP	16	(1948)	712
		-	-	Assign, Internal rot	Szasz	JCP	16	(1948)	704
		-	S	C_{2h} symmetry	Axford	JCP	17	(1949)	430
		-	-	Freq assign, IR	Gates	JCP	17	(1949)	393
		-	G	Anal hydrocarbon	Starr	AC	21	(1949)	572
		-	-	Vib freq	Mizushima	JACS	71	(1949)	1320
		-	-	Assign, Thermo	Sheppard	JCP	17	(1949)	86
		-	-	Selection rule	Simanouti	JCP	17	(1949)	1102
		-	-	IR	Milson	AC	21	(1949)	547
		1600-650	L,S	Rotation isomers	Axford	JCP	18	(1950)	51
		-	G	Anal	Coggeshall	AC	22	(1950)	381
		-	G	Anal	O'Neal	AC	22	(1950)	991
		-	G	Anal in CH_4	Stroupe	AC	22	(1950)	1125
		-	G	Anal	Stroupe	AC	22	(1950)	505
		-	G,L,S, Sol	Internal rot, Config	Mizushima	JPC	56	(1952)	324
		2-16μ	G	Spec, Table	Thompson	JPC	56	(1952)	243
		-	-	Ident	Gragson	JACS	75	(1953)	3344

		-	G,S	Thermo, Assign	Person	JACS	75	(1953)	532
		10-14.5μ	G	Spec, Epoxy study	Patterson	AC	26	(1954)	823
		1450-650	S	Freq assign	Tschamler	JCP	22	(1954)	1845
		-	-	Rocking freq	Corish	JCS	-	(1955)	2431
		-	-	Ident	Patterson	AC	27	(1955)	574
		650-5000	G	Spec	Neu	JPC	60	(1956)	320
		2-15μ	G	Spec, Threshold values	Pierson	AC	28	(1956)	1218
		-	G	Anal	Perry	AC	29	(1957)	1123
		-	-	Vib anal, Dipole moment	Theimer	JCP	27	(1957)	1041
		700-3500	L	Freq, Spec	Comeford	JMS	5	(1960)	474
$C_4C^{13}H_{10}$	n-Butane-1 (Isotopic)	-	-	Iso	Otvos	JCP	16	(1948)	745
$C_4C^{13}H_{10}$	n-Butane-2 (Isotopic)	-	-	Iso	Otvos	JCP	16	(1948)	745
C_4H_{10}	Isobutane	-	-	Thermo	Kassel	JCP	4	(1936)	276
		-	-	Rotational entropy	Kassel	JCP	4	(1936)	435
		-	-	FC, IR	Bonner	JCP	5	(1937)	293
		-	-	Freq assign	Edsall	JCP	5	(1937)	225
		-	G	Thermo	Pitzer	CR	27	(1940)	39
		-	G	Quan anal	Brattain	JAP	13	(1942)	699
		-	-	Thermo	Pitzer	JCP	10	(1942)	605
		800-1900	-	Spec, Anal	Barnes	IEC	15	(1943)	83
		700-1700	-	Spec	Barnes	IEC	15	(1943)	659
		-	G	Quant anal	Brattain	JAP	14	(1943)	418
		-	-	Thermo	Dailey	JACS	65	(1943)	44
		8.47μ	G	Thermo, Ext coeff	Nielsen	RMP	16	(1944)	307
		-	-	Anal	Jones	IEC	17	(1945)	349
		-	-	Freq	Kellner	TFS	41	(1945)	217
		-	-	CH_3 potential barrier	French	JCP	14	(1946)	389
		-	-	Ext coeff, Anal	Lee	IEC	18	(1946)	659
		-	-	Thermo	Pitzer	CR	39	(1946)	435
		-	-	Pressure broadening, Spec	Coggeshall	JCP	15	(1947)	65
		-	L	Anal	Glasgow	JRNB	38	(1947)	537
		-	-	Anal	Seyfried	IEC	19	(1947)	298
		-	-	Freq	Sutherland	JCP	15	(1947)	153
		-	-	Quant mech	Kilpatrick	JCP	16	(1948)	749
		-	-	Iso	Otvos	JCP	16	(1948)	745
		2-15μ	G	Spec, Assign	Rasmossen	JCP	16	(1948)	712
		-	-	Assign, IR	Sheppard	JCP	16	(1948)	690
		-	-	Electrostatic theory	Lassettre	JCP	17	(1949)	317
		-	G	Anal for hydrocarbons	Nielsen	AC	21	(1949)	547

		-	-	Skeletal freq	Simpson	PRS	199	(1949)	169
		-	-	Anal	Starr	AC	21	(1949)	572
		7-15μ	G	Spec, Anal	Coggeshall	AC	22	(1950)	381
		800-4000	G	IR, Spec	Condon	JCP	19	(1951)	1010
		10-15μ	G	Spec, Epoxy study	Patterson	AC	26	(1954)	823
		-	-	Freq correction	Sheppard	JCP	23	(1955)	582
		-	G	Anal	Stroupe	AC	22	(1950)	1125
		3-35μ	G	Spec, Assign	Evans	CJC	34	(1956)	1037
		2-15μ	G	Spec, Threshold values	Pierson	AC	28	(1956)	1218
		-	G	Anal	Perry	AC	29	(1957)	1123
		-	-	Mol struct & const	Lide	JCP	29	(1958)	914
		-	G	Spec, Struct, Mol const	Lide	JCP	33	(1960)	1519
$C_3C^{13}H_{10}$	Isobutane-1 (Isotopic)	-	-	Iso	Otvos	JCP	16	(1948)	745
		-	G	Spec, Struct, Mol const	Lide	JCP	33	(1960)	1519
$C_3C^{13}H_{10}$	Isobutane-2 (Isotopic)	-	-	Iso	Otvos	JCP	16	(1948)	745
		-	G	Spec, Struct, Mol const	Lide	JCP	33	(1960)	1519
$C_4H_{10}DO_2B$	Diethoxyborane-d_1	2-15μ	G	Spec, Freq assign	Lehmann	JCP	30	(1959)	1222
$C_4H_{10}D_4B_2$	1,2-Diethylborane-d_4	2-15μ	G	Spec, Assign	Lehmann	JCP	33	(1960)	590
$C_4H_{10}ClO_2PS$	Diethylphosphorochloridothionate	-	-	Spec, Freq	Popov	ZOK	29	(1959)	1998
$C_4H_{10}ClO_3P$	Diethyl chlorophosphonate	700-1600	L,Sol	Spec, Bond freq	Bellamy	JCS	-	(1952)	475
		900-1060	Sol	Band freq,	Helmann	JCS	-	(1953)	626
		-	-	Shift, Freq	Bell	JACS	76	(1954)	5185
$C_4H_{10}Cl_2Si$	Dichlorobutylsilane	2050-2250	Sol	Freq, Struct	Smith	SA	15	(1959)	412
$C_4H_{10}Cl_2Si$	Dichlorodiethylsilane	2-16μ	Sol	Freq, Spec, Struct	Smith	SA	16	(1960)	87
$C_4H_{10}FO_2PS$	β-Fluoropropyl methylphosphonothioic acid	740-1500	Sol	Assign	McIvor	CJC	37	(1959)	869
$C_4H_{10}FO_2PS$	γ-Fluoropropyl methylphosphonothioic acid	740-1500	Sol	Assign	McIvor	CJC	37	(1959)	869
$C_4H_{10}FO_3P$	Diethyl fluorophosphate	2-21μ	L	Spec, Struct anal	Daasch	AC	23	(1951)	853
		-	-	Freq, Shift	Bell	JACS	76	(1954)	5185
$C_4H_{10}F_2NP$	N,N-Diethylaminophosphorus difluoride	2-21μ	L	Spec, Struct, anal	Daasch	AC	23	(1951)	853

$C_4H_{10}F_3OB$	Diethyl ether boron-trifluoride	400-4000	S	Struct, Assign	Waddington	JCS	-	(1960)	2337
$C_4H_{10}F_4S$	Diethylsulfur hexafluoride	2-15μ	L	Spec	Halpern	APS	11	(1957)	173
$C_4H_{10}I_2O$	Ethylether-iodine complex	-	Sol	Freq, I	Yamada	JACS	82	(1960)	1543
$C_4H_{10}N_2$	Piperazine	600-4000	S,Sol	Spec, Band study	Heacock	CJC	34	(1956)	1782
		500-1500	S,Sol	Spec, Struct	Hendra	JCS	-	(1960)	5105
$C_4H_{10}N_2.HCl$	Piperazine hydrochloride	600-4000	S,Sol	Spec, Band study	Heacock	CJC	34	(1956)	1782
$C_4H_{10}N_2.2HCl$	Piperazine dihydro-chloride	600-4000	S,Sol	Freq, Assign	Stone	JCS	-	(1958)	52
$C_4H_{10}N_2.HClO_4$	Piperazine perchlorate	600-4000	S	Spec, Freq	Heacock	CJC	34	(1956)	1782
$C_4H_{10}N_2O$	Diethylnitrosamine	5.73-9.35μ	L	Table, Group freq, I	Haszeldine	JCS	-	(1954)	691
		-	G,L,Sol	Vib assign	Haszeldine	JCS	-	(1955)	4172
$C_4H_{10}N_2O_2$	cis-Nitrosoethane dimer	1000-1300	S	Spec, Struct	Gowenlock	JCS	-	(1957)	3927
$C_4H_{10}N_2O_2$	trans-Nitrosoethane dimer	1000-1300	Sol,S	Spec, Struct	Gowenlock	JCS	-	(1957)	3927
$C_4H_{10}N_2O_3S$	s-Methylcysteine sulfoximine	670-1800 670-1800	S	Spec, Group freq	Short	JCS	-	(1951)	1746
$C_4H_{10}N_2S$	N,N,N'-Trimethylthiourea	2-12μ	Sol	Spec	Ettlinger	JACS	72	(1950)	4699
$C_4H_{10}N_4$	Biacetyl dihydrazone	600-3500	S	Freq, Assign	Stonfer	JACS	82	(1960)	3491
$C_4H_{10}O$	n-Butanol	.8-2.0μ	L	Magnetic rotation	Ingersoll	JOSA	6	(1922)	663
		1-2.5μ	L	Spec	Smith	JACS	48	(1926)	1512
		-	-	Absorption coeff, Freq	Bonino	TFS	25	(1929)	876
		3-14μ	L	Spec	Lecomte	TFS	25	(1929)	864
		.8-2.5μ	L	Spec	Sappenfield	PR	33	(1929)	37
		-	-	Vibration theory	Lewis	PR	36	(1930)	568
		1-8μ	L	Spec, Freq, Assign	Plyler	PR	35	(1930)	605
		-	G	Spec	Badger	JCP	4	(1936)	711
		2800-3800	L,Sol	Spec, H bond	Bushwell	JCP	5	(1937)	501
		2.5-3.9μ	Sol	Spec, I	Fox	PRS	167	(1937)	419
		.4-4μ	L,Sol	Spec, H bond	Kinusey	JCP	5	(1937)	399
		1000-1650	-	Spec, Anal	Barnes	IEC	15	(1943)	659
		-	-	Anal	Anderson	AC	20	(1948)	998

		-	-	Formation of hemiacetals	Ashdown	JCS	-	(1948)	1454
		-	-	FC	Richards	TFS	44	(1948)	40
		720-750	L	Band freq	Wiberley	AC	22	(1950)	841
		2.7-3.2 μ	Sol	H bond, Equil const	Coggeshall	JACS	73	(1951)	5414
		2.7 μ	Sol	Anal	Meeks	AC	23	(1951)	792
		2800-3000	Sol	Stretch freq, Spec	Pozefsky	AC	23	(1951)	1611
		3 μ	Sol	Freq, H bond	Kuhn	JACS	74	(1952)	2492
		8530-10000	Sol	Spec, I, Freq	Lauer	APS	6	(1952)	29
		-	-	Freq	Bell	AC	25	(1953)	1720
		-	L	Deformation band	Quinan	JCP	21	(1953)	1896
		665-5000	L	Bond freq	Zeiss	JACS	75	(1953)	897
		-	L,Sol	Anal, Freq	Cram	JACS	76	(1954)	22
		-	L	Ident	Soffer	JACS	76	(1954)	3580
		3 μ	Sol	Pressure effect, Spec	Fishman	JCP	24	(1956)	548
		-	-	Freq, I shift	Finch	JCP	24	(1956)	908
		4000-350	L,G,Sol	Spec, OH band	Stuart	JCP	24	(1956)	559
		-	-	Stretching vib	Benson	JCP	27	(1957)	1164
		2.73 μ	G	Absorption freq	Friedel	AC	29	(1957)	1362
		8-13 μ	-	Spec	Eliel	SA	10	(1958)	423
		3 μ	Sol	FC, H bond	Flett	SA	10	(1958)	21
		3 μ	Sol	Dipole & bond strength, I	Moccia	PRS	243	(1958)	154
		3570-3700	Sol	Freq, I	Flynn	AJC	12	(1959)	575
$C_4H_{10}O$	s-Butanol	3-14 μ	L	Spec	Lecomte	TFS	25	(1929)	864
		.8-2.5 μ	L	Spec	Sappenfield	PR	33	(1929)	37
		-	G	Spec	Badger	JCP	4	(1936)	711
		1050-1750	-	Spec	Barnes	IEC	15	(1943)	659
		-	-	Anal	Anderson	AC	20	(1948)	998
		-	-	Spec, Rot iso	Bernstein	JCP	17	(1949)	885
		2850-3000	Sol	Stretch freq, Spec	Pozefsky	AC	23	(1951)	1611
		3 μ	Sol	Freq, H bond	Kuhn	JACS	74	(1952)	2492
		650-5000	L	Bond freq	Zeiss	JACS	75	(1953)	897
		350-4000	L,Sol	Spec, FC	Stuart	JCP	24	(1956)	559
		-	G	OH bond freq	Tarte	JCP	26	(1957)	962
		3 μ	Sol	FC, H bond	Flett	SA	10	(1958)	21
		3 μ	Sol	Bond dipole & length, I	Moccia	PRS	243	(1958)	154
		-	-	Absorption band assign	Michinori	BCSJ	32	(1959)	950
$C_4H_{10}O$	t-Butanol	3-14 μ	L	Spec	Lecomte	TFS	25	(1929)	864
		.8-2.5 μ	L	Spec	Sappenfield	PR	33	(1929)	37
		-	G	Spec	Badger	JCP	4	(1936)	711
		2.5-3.9 μ	Sol	Spec, I	Fox	PRS	162	(1937)	419
		-	-	Activation energy, Bond freq	Fugassi	JPC	46	(1942)	630
		800-1950	Sol	Spec	Barnes	IEC	15	(1943)	659

		-	-	FC	Richards	TFS	44	(1948)	40
		2800-3000	Sol	Stretch freq, Spec	Pozefsky	AC	23	(1951)	1611
		-	Sol	Association, Thermo	Prigogine	TFS	47	(1951)	1137
		2-15μ	L	Spec, Struct anal	Shreve	AC	23	(1951)	282
		2.6-3.3μ	Sol	Spec, H bond	Smith	JRNB	46	(1951)	145
		200-1250	-	Spec	Goubeau	ZAUA	268	(1952)	1
		3μ	Sol	Spec, H bond	Kuhn	JACS	74	(1952)	2492
		800-950	Sol	Bond freq	Philpotts	AC	24	(1952)	638
		665-5000	L	Bond freq	Zeiss	JACS	75	(1953)	897
		-	L	Freq	Mosher	AC	27	(1955)	517
		-	-	Ident	Wiberg	JACS	77	(1955)	1159
		350-4000	L,Sol	Band freq	Stuart	JCP	24	(1956)	559
		-	G	OH bending freq	Tarte	JCP	26	(1957)	962
		3μ	Sol	FC, H bond	Flett	SA	10	(1958)	21
		3μ	Sol	H bond	Liddel	SA	10	(1958)	70
		3100-3550	Sol	H bond	Lund	ACS	12	(1958)	298
		3μ	Sol	Bond dipole & length	Moccia	PRS	243	(1958)	154
		3570-3700	Sol	Freq, I	Flynn	AJC	12	(1959)	575
		-	-	Absorption bands assign	Michinori	BCSJ	32	(1959)	950
		665-5000	L,G	Freq	Ory	AC	32	(1960)	509
		300-4000	Sol	Spec, Freq, Assign	Pritchard	JPC	64	(1960)	795
		-	L,G	Spec, Assign	Tanaka	NKZ	81	(1960)	1042
$C_4H_{10}O$	Diethyl ether	52μ	L	Absorption	Hollnagel	PR	11	(1918)	505
		6.8-2.0μ	L	Magnetic rotation	Ingersoll	JOSA	6	(1922)	663
		3.3μ	L	Freq	Meyer	PR	21	(1923)	712
		0-2.5μ	L	Spec	Ellis	PR	23	(1924)	48
		1-2.5μ	L	Spec	Smith	JACS	48	(1926)	1512
		2800-3025	G	Freq	Meyer	JOSA	15	(1927)	257
		.7-2.5μ	L	Bond study	Ellis	JACS	51	(1929)	1384
		-	-	Thermo, Freq	Lecomte	TFS	25	(1929)	864
		-	-	Electric moment	Williams	CR	6	(1929)	589
		6.7-33μ	G	Transmission	Strong	PR	37	(1931)	1565
		52-152μ	L,Sol	Trans, Dispersion	Cartwright	PRS	154	(1936)	138
		1-13μ	L	Spec, Struct anal	Plum	JCP	5	(1937)	172
		3.3μ	G	Ext coeff	Williams	JAP	8	(1937)	477
		-	-	H bond	Freymann	JCP	6	(1938)	497
		8.5-9.4μ	L,Sol	Spec, H bond	Gordy	JACS	60	(1938)	605
		-	-	Solvent effect	Gordy	JCP	7	(1939)	93
		-	-	Solvent effect	Gordy	JCP	7	(1939)	99
		-	-	Solvent effect	Gordy	JCP	7	(1939)	163
		850-1600	-	Spec	Barnes	IEC	15	(1943)	659
		22-39μ	L	Absorption freq	Plyler	JCP	17	(1949)	218

		720-750	L	Band freq	Wiberly	AC	22	(1950)	841
		2750-3000	Sol	Spec, Stretch freq	Pozefsky	AC	23	(1951)	1611
		2593-2689	Sol	H bond, Freq	Searles	JACS	73	(1951)	3704
		2-15μ	L	Spec, Solvent chart	Pristera	APS	6	(1952)	29
		2-16μ	L	Spec, Solvent chart	Anderson	JOSA	43	(1953)	221
		-	Sol	Band freq, H bond	Seales	JACS	75	(1953)	71
		-	L	Spec	Haszeldine	JCS	-	(1954)	4145
		2-11.5μ	G	Spec	Donovan	JCP	23	(1955)	1592
		2-15μ	G	Spec	Pristera	AC	27	(1955)	457
		2-15μ	G	Spec, Threshold values	Pierson	AC	28	(1956)	1218
		-	-	Freq, Assign	Nukada	NKZ	80	(1959)	976
		700-4000	Sol,L	Freq, Ext coeff	DeMaine	CJC	38	(1960)	1921
$C_4H_{10}O$	Isobutanol	3-14μ	L	Spec	Lecomte	TFS	25	(1929)	864
		.8-2.5μ	L	Spec	Sappenfield	PR	33	(1929)	37
		1-8μ	L	Spec, Freq, Assign	Plyler	PR	35	(1930)	605
		-	G	Spec	Badger	JCP	4	(1936)	711
		-	-	Anal	Anderson	AC	20	(1948)	998
		7-14μ	-	Formation of hemiacetals	Ashdown	JCS	-	(1948)	1454
		720-750	L	Band freq	Wiberly	AC	22	(1950)	841
		2800-3000	Sol	Stretch freq, Spec	Pozefsky	AC	23	(1951)	1611
		2.3-3.6μ	Sol	Spec, Band freq	Allison	AC	24	(1952)	630
		665-5000	L	Bond freq	Zeiss	JACS	75	(1953)	897
		-	-	Freq correction	Sheppard	JCP	23	(1955)	582
		350-4000	L,Sol	Bond freq	Stuart	JCP	24	(1956)	559
		1400-1600	Sol	Mol association	Ens	CJC	35	(1957)	170
		8-13μ	Sol	Spec	Eliel	SA	10	(1958)	423
		3μ	Sol	Freq, H bond	Flett	SA	10	(1958)	21
		3μ	Sol	Bond freq, Dipole mom, I	Moccia	PRS	243	(1958)	154
		3570-3700	Sol	Freq, I	Flynn	AJC	12	(1959)	575
		-	-	Freq, Absorption band	Michinori	BCSJ	32	(1959)	950
$C_4H_{10}O$	Methyl isopropyl ether	1-2.5μ	L	Spec	Smith	JACS	48	(1926)	1512
$C_4H_{10}O$	Methyl n-propyl ether	1-2.5μ	L	Spec	Smith	JACS	48	(1926)	1512
$C_4H_{10}O$	Trimethylmethanol	3300-3700	Sol	H bond	West	JACS	81	(1959)	6145
$C_4H_{10}OS$	Methyl propyl sulfoxide	6.8-14.5μ	L	Table, I, Group freq	Price	JACS	75	(1953)	4750
$C_4H_{10}O_2$	1,3-Butanediol	700-1500	L	Spec, Ident	Shay	AC	26	(1954)	652
		-	L,S,Sol	H bond, Freq, Config	Malyshev	IANS	22	(1958)	1107
		.01-25 Mc/sec	Sol	Spec	Moriamez	CPR	249	(1959)	1622

$C_4H_{10}O_2$	1,4-Butanediol	3μ	L,Sol	Spec	Kuhn	JACS	74	(1952)	2492
		-	L,Sol,	H bond, Freq, Config	Malyshev	IANS	22	(1958)	1107
		8.87-9.44μ	Sol	Sol	Spell	AC	31	(1959)	1600
$C_4H_{10}O_2$	2,3-Butanediol	2.6-3.1μ	Sol	H bond	Wall	JACS	61	(1939)	2679
		1000-1800	-	Spec, Anal	Barnes	IEC	15	(1943)	83
		1050-1750	-	Spec	Barnes	IEC	15	(1943)	659
		3μ	Sol	Spec	Kuhn	JACS	74	(1952)	2492
		-	-	Ident	Kuhn	JACS	76	(1954)	328
$C_4H_{10}O_2$	n-Butyl hydroperoxide	5.5-14.5μ	L	Group freq, Spec	Mosher	AC	27	(1955)	517
$C_4H_{10}O_2$	s-Butyl hydroperoxide	5.5-14.5μ	L	Group freq, Spec	Mosher	AC	27	(1955)	517
$C_4H_{10}O_2$	t-Butyl hydroperoxide	2-15μ	L	Spec, Struct anal	Shreve	AC	23	(1951)	282
		800-960	Sol	Band freq	Philpotts	AC	24	(1952)	638
		5-15μ	Sol	Spec	Minkoff	PRS	224	(1954)	176
		-	L	Group freq	Mosher	AC	27	(1955)	517
		665-5000	L,G	Freq	Ory	AC	32	(1960)	509
$C_4H_{10}O_2$	Diethyl peroxide	1-30μ	G	Spec	Kettering	P	4	(1933)	39
		-	L	Group freq	Gray	JCS	-	(1952)	3150
		5-15μ	Sol	Spec	Minkoff	PRS	224	(1954)	176
$C_4H_{10}O_2$	1,1-Dimethoxyethane	1500-5000	Sol	Group freq	Briggs	AC	29	(1957)	904
		-	G,L	Characteristic freq	Nukada	NKZ	80	(1959)	1112
$C_4H_{10}O_2$	1,2-Dimethoxyethane	-	-	Ident	Baker	AC	25	(1953)	1457
		1500-5000	Sol	Group freq	Briggs	AC	29	(1957)	904
		7-14μ	L	Rocking freq	Miyake	JACS	82	(1960)	3040
$C_4H_{10}O_2$	2-Ethoxyethanol-1	2.6-3.2μ	Sol	H bond	Wall	JACS	61	(1939)	2679
		3μ	Sol	Band freq	Kuhn	JACS	74	(1952)	2492
		3μ	Sol	FC, H bond	Flett	SA	10	(1958)	21
$C_4H_{10}O_2$	1-Methoxy-2-propanol	8-10μ	-	Spec	Sexton	JACS	70	(1948)	3606
$C_4H_{10}O_2$	2-Methoxy-1-propanol	8-10μ	-	Spec	Sexton	JACS	70	(1948)	3606
$C_4H_{10}O_2S$	Diethyl sulfone	-	Sol	Group freq	Waight	JCS	-	(1952)	2440
$C_4H_{10}O_2S$	Methyl 1-propyl sulfone	6.7-13μ	L	Table, Group freq, I	Price	JACS	75	(1953)	4750
		865-1475	Sol	Ident, Table	Marvel	JACS	76	(1954)	61
$C_4H_{10}O_2S$	Thiodiglycol	1000-1500	Sol	Spec	Schreiber	AC	21	(1949)	1168

$C_4H_{10}O_3$	Diethylene glycol	2800-3100	Sol	Stretch freq, Spec	Pozefsky	AC	23	(1951)	1611
		700-1500	L	Ident, Spec	Shay	AC	26	(1954)	652
		2.5-10.5 μ	Sol	Spec, Anal	Potts	AC	28	(1956)	1255
		-	-	Freq, Assign	Nukada	NKZ	80	(1959)	976
		863-1131	Sol	Anal	Pinchas	AC	31	(1959)	1742
$C_4H_{10}O_3$	1-Hydroxy-1-hydroperoxy-n-butane	5-15 μ	Sol	Spec	Minkoff	PRS	224	(1954)	176
$C_4H_{10}O_3$	1-Hydroxy-1-peroxy-methylpropane	5-15 μ	Sol	Spec	Minkoff	PRS	224	(1954)	176
$C_4H_{10}O_3$	Trimethoxymethane	-	-	Spec, Freq	Nukada	NKZ	81	(1960)	1028
$C_4H_{10}O_3S$	Ethyl sulfite	7-10 μ	L	Freq assign	Haszeldine	JCS	-	(1955)	2901
$C_4H_{10}O_4$	Di(1-hydroxyethyl)-1-peroxide	5-15 μ	Sol	Spec	Minkoff	PRS	224	(1954)	176
$C_4H_{10}O_4$	Erythritol (meso)	8-15 μ	S	Spec	Kuhn	AC	22	(1950)	276
$C_4H_{10}O_4S$	Diethyl sulphate	.7-2.5 μ	L	Bond freq	Ellis	JACS	51	(1929)	1384
		1-8 μ	L	Spec, Freq, Assign	Plyler	PR	35	(1930)	605
		1000-1500	Sol	Spec	Schreiber	AC	21	(1949)	1168
$C_4H_{10}O_4S$	Thiodiglycol sulfone	1000-1500	Sol	Spec	Schreiber	AC	21	(1949)	1168
$C_4H_{10}S$	n-Butyl mercaptan	6-2.8 μ	L	S-H study	Ellis	JACS	50	(1928)	2113
		2.75-4.25 μ	L	S-H freq	Williams	PR	54	(1938)	504
		3.1-4.5 μ	L	H bond	Gordy	JACS	62	(1940)	497
		500-1700	L	Spec, Assign	Trotter	JCS	-	(1946)	481
		-	-	IR, Freq	Sheppard	TFS	46	(1950)	429
		2800-3000	Sol	Stretch freq, Spec	Pozefsky	AC	23	(1951)	1611
		-	-	IR, Spec	Haines	JPC	60	(1956)	549
		2500-2700	Sol	I, Absorption coeff	Spurr	JPC	62	(1958)	425
$C_4H_{10}S$	t-Butyl mercaptan	500-1700	G	Spec, Assign	Trotter	JCS	-	(1946)	481
		-	-	IR, Freq, FC	Sheppard	TFS	46	(1950)	429
		-	-	Freq, Assign	Sheppard	TFS	46	(1950)	527
		679-2959	L	Table freq, Thermo	McCullough	JACS	75	(1953)	1818
		2-25 μ	L	Spec	Haines	JPC	58	(1954)	270
		200-1500	-	Freq, Assign, Struct	Scott	JACS	80	(1958)	3554
		2500-2700	Sol	Stretch freq, I	Spurr	JPC	62	(1958)	425

$C_4H_{10}S$	Isobutyl mercaptan	500-1700	G,L	Spec, Assign	Trotter	JCS	-	(1946)	481
		-	-	IR, FC	Sheppard	TFS	46	(1950)	429
		2800-3000	Sol	Spec, Stretch freq	Pozefsky	AC	23	(1951)	1611
$C_4H_{10}S$	3-Methyl-2-thiabutane	-	-	IR, Spec	Haines	JPC	60	(1956)	549
		200-1500	-	Freq, Assign, Struct	Scott	JACS	80	(1958)	3554
$C_4H_{10}S$	2-Thiapentane	6.8-14.35μ	L	Table, I, Band & group freq	Price	JACS	75	(1953)	4750
		-	-	IR, Spec	Haines	JPC	60	(1956)	549
$C_4H_{10}S$	3-Thiapentane	.6-2.8μ	Sol	S-H study	Ellis	JACS	50	(1928)	2113
		1050-1600	-	Spec	Barnes	IEC	15	(1943)	659
		500-1700	L	Spec, Assign	Trotter	JCS	-	(1946)	481
		-	-	Freq	Sheppard	TFS	46	(1950)	429
		2800-3000	Sol	Stretch freq, Spec	Pozefsky	AC	23	(1951)	1611
		-	-	Group freq	Brandt	JCS	-	(1952)	2549
		-	L	Table, IR, Thermo	Scott	JACS	74	(1952)	4656
		2-25μ	L	Spec,	Haines	JPC	58	(1954)	270
		200-1500	-	Freq, Assign, Struct	Scott	JACS	80	(1958)	3554
$C_4H_{10}S_2$	Ethyl disulphide	400-1700	L	Spec, Assign	Trotter	JCS	-	(1946)	481
		-	-	Freq	Sheppard	TFS	46	(1950)	429
		2800-3000	Sol	Spec, Stretch freq	Pozefsky	AC	23	(1951)	1611
		-	-	Group freq, Stretch freq	Brandt	JCS	-	(1952)	2549
		500-1500	S,L	Freq, I, Energy function	Scott	JACS	74	(1952)	2478
		-	-	Ident	Cairus	JOC	18	(1953)	748
		2-25μ	L	Spec,	Haines	JPC	58	(1954)	270
		200-1500	-	Freq, Assign, Struct	Scott	JACS	80	(1958)	3554
$C_4H_{10}S_3$	Ethyl trisulfide	-	-	Ident	Cairus	JOC	18	(1953)	748
$C_4H_{10}Se$	Diethylselenide	2-40μ	-	Assign	Bergson	ARK	13	(1958)	11
$C_4H_{11}ClNOPS$	Ethyl dimethylphosphoramidochloridothionate	400-1050	Sol	Assign	McIvor	CJC	37	(1959)	869
$C_4H_{11}ClNO_2P$	Ethyl dimethylaminochlorophosphonate	-	-	Freq shift	Bell	JACS	76	(1954)	5185
$C_4H_{11}ClNO_2P$	Ethyl dimethylphosphoramidochloridate	600-1050	Sol	Assign	McIvor	CJC	37	(1959)	869

$C_4H_{11}ClSi$	Chloromethyltrimethylsilane	-	-	Ident, Spec	Roberts	JACS	73	(1951)	1879
$C_4H_{11}ClSi$	Diethylchlorosilane	-	G	Band freq	Richards	JCS	-	(1949)	124
		2050-2250	-	Freq shift, Struct	Smith	SA	15	(1959)	412
		2-16 μ	Sol	Freq, Spec, Struct	Smith	SA	16	(1960)	87
$C_4H_{11}N$	n-Butylamine	1-12 μ	L	N-H study, Spec	Bell	JACS	49	(1927)	1837
		.6-2.4 μ	L	N-H study	Ellis	JACS	50	(1928)	685
		6400-6800	Sol	NH band	Liddel	JACS	55	(1933)	3574
		6400-6800	Sol	Spec, Group anal	Wulf	JACS	57	(1935)	1464
		-	-	Effect as solvent	Gordy	JCP	7	(1939)	93
		1050-1850	-	Spec	Barnes	IEC	15	(1943)	659
		2-8 μ	S	Spec	Nakanishi	BCSJ	30	(1957)	403
		3000-4000	Sol	Freq, I	Orivelle	JCS	-	(1958)	1047
		2-15 μ	L	Freq, Assign, NCA	Stewart	JCP	30	(1959)	1259
$C_4H_{11}N$	sec-Butylamine	2-15 μ	L	Freq, Assign, NCA	Stewart	JCP	30	(1959)	1259
$C_4H_{11}N$	t-Butylamine	2-15 μ	L	Freq, Assign, NCA	Stewart	JCP	30	(1959)	1259
$C_4H_{11}N.HBr$	n-Butylamine hydrobromide	1000-3500	Sol	Freq, Spec	Chenon	CJC	36	(1958)	1181
$C_4H_{11}N.HCl$	n-Butylamine hydrochloride	2-8 μ	Sol	Spec	Nakanishi	BCSJ	30	(1957)	403
		1000-3500	Sol	Freq, Spec	Chenon	CJC	36	(1958)	1181
$C_4H_{11}N.HI$	n-Butylamine hydriodide	1000-3500	Sol	Freq, Spec	Chenon	CJC	36	(1958)	1181
$C_4H_{11}N.HBr$	sec-Butylamine hydrobromide	1000-3500	Sol	Freq, Spec	Chenon	CJC	36	(1958)	1181
$C_4H_{11}N.HCl$	sec-Butylamine hydrochloride	1000-3500	Sol	Freq, Spec	Chenon	CJC	36	(1958)	1181
$C_4H_{11}N.HI$	sec-Butylamine hydriodide	1000-3500	Sol	Freq, Spec	Chenon	CJC	36	(1958)	1181
$C_4H_{11}N.HBr$	t-Butylamine hydrobromide	1000-3500	Sol	Freq, Spec	Chenon	CJC	36	(1958)	1181
$C_4H_{11}N.HCl$	t-Butylamine hydrochloride	1000-3500	Sol	Freq, Spec	Chenon	CJC	36	(1958)	1181
$C_4H_{11}N.HI$	t-Butylamine hydriodide	1000-3500	Sol	Freq, Spec	Chenon	CJC	36	(1958)	1181

$C_4H_{11}N$	Diethylamine	6400-6800	Sol	NH band	Liddel	JACS	55	(1933)	3574
		720-750	L	Freq	Wiberley	AC	22	(1950)	841
		-	L,G	Assign	Barr	JCS	-	(1955)	4169
		2.6-3.4μ	-	H bond, I	Mizushima	SA	7	(1955)	100
		-	Sol	Freq, I, Ext coefficient	Russel	JCS	-	(1955)	483
		-	Sol	Spec	Nakanishi	BCSJ	30	(1957)	403
		1.24-3.18μ	G	Microwave, Absorption	Murty	JSIR	18B	(1959)	455
		2-15μ	L,G	Freq assign, NCA	Stewart	JCP	30	(1959)	1259
$C_4H_{11}N.HBr$	Diethylamine hydrobromide	1000-3500	Sol,S	Freq, Spec	Chenon	CJC	36	(1958)	1181
$C_4H_{11}N.HCl$	Diethylamine hydrochloride	2-8μ	-	Spec	Nakanishi	BCSJ	30	(1957)	403
		1000-3500	S,Sol	Freq, Spec	Chenon	CJC	36	(1958)	1181
		600-4000	S	Freq, Assign	Stone	JCS	-	(1958)	52
$C_4H_{11}N.HI$	Diethylamine hydriodide	1000-3500	S,Sol	Freq, Spec	Chenon	CJC	36	(1958)	1181
$C_4H_{11}N$	1,1-Dimethylethylamine	200-1250	-	Spec	Goubeau	ZAUA	268	(1952)	1
$C_4H_{11}N$	Isobutylamine	2-15μ	L,G,Sol	Freq, FC, Assign, NCA	Stewart	JCP	30	(1959)	1259
$C_4H_{11}N.HBr$	Isobutylamine hydrobromide	1000-3500	Sol	Freq, Spec	Chenon	CJC	36	(1958)	1181
$C_4H_{11}N.HCl$	Isobutylamine hydrochloride	1000-3500	Sol	Freq, Spec	Chenon	CJC	36	(1958)	1181
$C_4H_{11}N.HI$	Isobutylamine hydriodide	1000-3500	Sol	Freq, Spec	Chenon	CJC	36	(1958)	1181
$C_4H_{11}NO$	Dimethylethanolamine	2-15μ	-	Spec	Barr	JACS	74	(1952)	4430
		-	-	Rot iso	Kuhn	ZAC	170	(1959)	106
$C_4H_{11}NO_2$	Diethanolamine	600-4000	Sol,L	Spec	Heacock	CJC	34	(1956)	1782
		2900-3100	Sol	Freq	Hill	JCS	-	(1958)	760
$C_4H_{11}NO_2.HNO_3$	Diethanolamine nitrate	600-4000	S,Sol	Spec, Freq	Heacock	CJC	34	(1956)	1782
$C_4H_{11}N_3$	N,N',N"-Trimethylguanidine	800-3500	S	Spec	Goto	BCSJ	30	(1957)	723
$C_4H_{11}N_3.HCl$	N,N',N"-Trimethylguanidine hydrochloride	800-3500	S	Spec	Goto	BCSJ	30	(1957)	723

$C_4H_{11}N_3O$	N,N-Dimethylamino-acetamidoxime	930-3500	Sol,S	Freq	Hollander	JOC	23	(1958) 1112
$C_4H_{11}O_2P$	Ethyl ester of dimethyl-phosphinic acid	-	-	Freq assign	Ketelaar	RTC	78	(1959) 190
$C_2H_{11}O_2PS_2$	O,O-Diethylphosphoro-dithioic acid	450-830	L	Assign	McIvor	CJC	37	(1959) 869
$C_4H_{11}O_2B$	Diethoxyborane	2-15μ	G	Spec, Freq, Assign	Lehmann	JCP	30	(1959) 1222
$C_4H_{11}O_3P$	n-Butylphosphonic acid	2-12μ	S	Spec, Struct	Daasch	AC	23	(1951) 853
		600-4000	S	Group study	Braunholtz	JCS	-	(1959) 868
$C_4H_{11}O_3P$	Diethylhydrogen phosphite	2-25μ	L	Spec	Meyrick	JCS	-	(1950) 225
		2-21μ	Sol	Spec, Struct	Daasch	AC	23	(1951) 853
		700-1400	Sol	Spec, Freq	Bellamy	JCS	-	(1952) 475
		-	-	P=O freq	Bell	JACS	76	(1954) 5185
		-	-	Band freq	Bennett	JCS	-	(1954) 3598
$C_4H_{11}O_4P$	Ethyl dimethyl-phosphate	900-1060	Sol	Band freq, Group freq	Helmann	JCS	-	(1953) 626
$C_4H_{11}PS_2$	Diethylphosphino-dithioic acid	2200-2700	Sol	H bond, Spec	Allen	JCS	-	(1957) 3912
$C_4H_{11}PS_4$	Methyl-n-propyl-phosphorotetrathioic acid	1950-2650	L,Sol	H bond	Alford	CIL	-	(1959) 514
$C_4H_{11}PS_4$	Methyl-isopropyl-phosphorotetrathioic acid	1950-2650	L,Sol	H bond	Alford	CIL	-	(1959) 514
$C_4H_{12}ClFSi_2$	1-Fluoro-2-chloro-tetramethyldisilane	-	-	Spec, Assign	Hayashi	NKZ	78	(1957) 1472
$C_4H_{12}ClF_3NB$	Tetramethylammonium chlorotrifluoroborate	400-4000	S,L	Struct, Assign	Waddington	JCS	-	(1960) 2339
$C_4H_{12}ClN$	t-Butylammonium chloride	600-3500	S	Spec	Kynaston	JCS	-	(1960) 1772
$C_4H_{12}ClNO_3S$	Tetramethylammonium chlorosulphate	400-4000	S,L	Struct, Assign	Waddington	JCS	-	(1960) 2339

$C_4H_{12}Cl_2Si_2$	1,2-Dichlorotetramethyl-disilane	-	G,L,S	Struct	Hayashi	NKZ	79 (1958) 775
$C_4H_{12}Cl_4NB$	Butylammonium tetra-chloroborate	600-3500	S	Spec	Kynaston	JCS	- (1960) 1772
$C_4H_{12}Cl_4NB$	Tetramethylammonium tetrachloroborate	600-3500	S	Spec	Kynaston	JCS	- (1960) 1772
$C_4H_{12}Cl_4N_5P_3$	Dimethylamino derivative of trimeric phosphoro-nitrilic chloride	1150-1350	-	Freq, Struct	Sharo	CIL	- (1959) 514
$C_4H_{12}FN_2OP$	Bis-dimethylamino-fluorophosphine oxide	700-1500	L	Spec, Freq	Bellamy	JCS	- (1952) 475
		-	-	P=O freq	Bell	JACS	76 (1954) 5185
$C_4H_{12}F_2Si_2$	1,2-Difluorotetramethyl-disilane	-	-	Spec, Assign	Hayashi	NKZ	78 (1957) 1472
$C_4H_{12}F_3O_2B$	Borontrifluoride diethanol complex	2200-7600	-	Struct	Babushkin	OS	5 (1958) 256
$C_4H_{12}IN$	Tetramethylammonium	600-4000	S	Spec	Heacock	CJC	34 (1956) 1782
		2800-3000	L,S	Group detection	Braunholtz	JCS	- (1958) 2780
		400-4000	S	Assign	Ebsworth	SA	13 (1959) 261
$C_4H_{12}INO_3$	Tetramethylammonium iodate	-	S	Spec, Struct	Dasent	JCS	- (1960) 2429
$C_4H_{12}N$	Diethylammonium ion	2-15μ	S	Assign, Freq	Bellanato	SA	16 (1960) 1344
$C_4H_{12}N$	Tetramethylammonium ion	-	-	Freq, Assign	Edsall	JCP	5 (1937) 225
		-	-	Quant mech	Silver	JCP	8 (1940) 919
		-	-	Freq assign	Young	JACS	69 (1947) 1410
		-	-	FC	Sheline	JCP	18 (1950) 595
		-	-	FC	Sheline	JCP	18 (1950) 602
$C_4H_{12}NO_2PS$	Ethyldimethylphosphor-amidothioic acid	740-1500	Sol	Assign	McIvor	CJC	37 (1959) 869
$C_4H_{12}NO_3P$	Diethylamino phosphonate	-	-	P=O freq	Bell	JACS	76 (1954) 5185

$C_4H_{12}NO_3P$	Diethylphosphoramidate	600-1050	Sol	Assign	McIvor	CJC	37	(1959) 869
$C_4H_{12}NO_6P$	Glycine ethyl ester phosphonate	3-15μ	L,S	Spec, Freq	Li	JACS	77	(1955) 3519
$C_4H_{12}N_2$	1,2-Diethylhydrazine	600-4000	L,Sol	Spec, Freq	Heacock	CJC	34	(1956) 1782
$C_4H_{12}N_2.HCl$	1,2-Diethylhydrazine hydrochloride	600-4000	S	Spec, Freq	Heacock	CJC	34	(1956) 1782
$C_4H_{12}N_2$	Tetramethylhydrazine	2-15μ	G	Spec	Pierson	AC	28	(1956) 1218
		400-4500	G,L,S	Spec, Assign	Mckean	SA	10	(1958) 161
$C_4H_{12}N_2$	N,N-Dimethylethylene-diamine	3.38-3.60μ	S	Freq	Wright	JOC	24	(1959) 1362
$C_4H_{12}N_4$	Tetramethyltetrazene	2-15μ	G	Spec	Pierson	AC	28	(1956) 1218
$C_4H_{12}N_4O_2$	Dimethylnitrosamine dimer	-	Sol,L	Assign	Haszeldine	JCS	-	(1955) 4172
$C_4H_{12}OSi$	Methoxytrimethylsilane	2-25μ	-	Assign	Fornesis	ZE	62	(1958) 1130
$C_4H_{12}O_2Si$	Dimethyldimethoxysilane	2-25μ	-	Assign	Fornesis	ZE	62	(1958) 1130
		-	L,S	Spec, Config	Hayashi	NKZ	79	(1958) 436
		700-3500	L,Sol	Spec, Struct	Tanaka	BCSJ	31	(1958) 762
$C_4H_{12}O_3Si$	Methyl-trimethoxysilane	2-25μ	-	Assign	Fornesis	ZE	62	(1958) 1130
		700-3500	L,Sol	Struct	Tanaka	BCSJ	31	(1958) 762
$C_4H_{12}O_4$	Ethyleneglycol dimer	700-1600	L	Config	Kuroda	JPS	26	(1957) 323
$C_4H_{12}O_4Si$	Silicon methoxide	-	-	Spec, Assign	Kriegsmann	ZE	62	(1958) 1163
$C_4H_{12}O_4Si$	Tetramethoxysilane	-	-	FC	Iguchi	JCP	22	(1954) 1937
		700-3500	L	Spec	Tanaka	BCSJ	31	(1958) 762
$C_4H_{12}O_7P_2$	Tetramethyl pyrophosphate	2-21μ	Sol	Spec, Struct	Daasch	AC	23	(1951) 853
		-	Sol	Group freq	Bergmann	JCS	-	(1952) 847
		-	-	P=O freq	Bell	JACS	76	(1954) 5185
$C_4H_{12}Si$	Diethylsilane	2-16μ	L,Sol	Spec,Freq	Kaye	JOC	18	(1953) 1750
		-	-	Freq, Thermo	Tannenbaum	JACS	75	(1953) 3753
		2-13μ	Sol	Spec	West	JOC	18	(1953) 303
		2-16μ	G	Ident, Freq	White	JACS	76	(1954) 3897

$C_4H_{12}Si$	n-Butylsilane	2-16μ	L,Sol	Spec, Freq	Kaye	JOC	18	(1953)	1750
		-	-	Freq, Thermo	Tannenbaum	JACS	75	(1953)	3753
$C_4H_{12}Si$	Isobutylsilane	2-16μ	L,Sol	Spec, Freq	Kaye	JOC	18	(1953)	1750
		-	-	Freq, Thermo	Tannenbaum	JACS	75	(1953)	3653
$C_4H_{12}Si$	Tetramethylsilane	-	-	Assign	Anderson	JCP	4	(1936)	161
		-	-	FC	Wall	JCP	6	(1938)	107
		-	-	Freq	Silver	JCP	7	(1939)	1113
		-	-	Quant mech	Silver	JCP	8	(1940)	919
		-	-	Internal rotation	Aston	JCP	12	(1944)	336
		-	-	Thermo	French	JCP	14	(1946)	389
		-	-	FC, Bond distances	Gordy	JCP	14	(1946)	305
		600-6000	G	Spec	Young	JACS	69	(1947)	1410
		-	-	Absorption freq, FC	Simanouti	JCP	17	(1949)	848
		-	-	FC	Sheline	JCP	18	(1950)	595
		-	-	FC	Sheline	JCP	18	(1950)	602
		-	-	Assign	Shimanouchi	JCP	18	(1950)	1306
		-	-	Spec, Ident	Roberts	JACS	73	(1951)	1879
		650-1375	G,L,S	Spec	Simon	JCP	20	(1952)	905
		2-16μ	G	Spec, Freq	Kaye	JOC	18	(1953)	1750
		2-25μ	G	Spec, Assign	Shull	JCP	21	(1953)	2024
		2-25μ	G	Spec, Assign	Smith	JCP	21	(1953)	1997
		-	-	Freq, Thermo	Tannenbaum	JACS	75	(1953)	3753
		2-16μ	G	Spec	White	JACS	76	(1954)	3897
		12-36μ	G	Spec	Sheppard	TFS	51	(1955)	1465
		2-25μ	-	Assign	Fornesis	ZE	62	(1958)	1130
		-	-	Mol consts	Kovalev	OS	6	(1959)	594
		-	-	NCA, Assign, Thermo	Shimizu	JMS	5	(1960)	44
		2-16μ	Sol	Spec, Struct, Freq	Smith	SA	16	(1960)	87
$C_4H_{13}NSi$	Methyl-N-trimethyl-silylamine	-	-	Spec, Assign	Goubean	ZAUA	303	(1960)	217
$C_4H_{13}NSi$	Trimethylsilylmethyl-amine	-	-	Absorption	Noll	JACS	73	(1951)	3871
		2-15μ	-	Spec	George	JACS	77	(1955)	3493
$C_4H_{14}N_2O_3P_2$	Bis-dimethylamino-phosphinic anhydride	700-1500	L	Spec, Freq	Bellamy	JCS	-	(1952)	475
$C_4H_{14}N_6 \cdot H_2SO_4$	Methylguanidine sulfate	-	S	C=N freq	Pickard	JACS	76	(1954)	5169

$C_4H_{14}OSi_2$	Tetramethyldisiloxane	600-3500	Sol	Spec, Freq	Sakiyama	BCSJ	31 (1956)	67
$C_4H_{14}O_3Si_2$	Tetramethyldisiloxane-1,3-diol	-	S	Ident	Hyde	JACS	75 (1953)	2166
		2.5-4 μ	S,Sol	Struct, H bond	Kakudo	JCP	21 (1953)	1894
		-	S	Freq, H bond	Kantor	JACS	75 (1953)	2712
$C_4H_{14}B_2$	Tetramethyldiborane	2-25 μ	-	Theoretical	Cowan	JCP	17 (1949)	218
		-	-	Freq	Price	JCP	17 (1949)	1044
		1500-2850	-	Freq	Shapiro	JCP	29 (1958)	237
$C_4H_{14}B_2$	1,1-Diethyldiborane	1500-2850	-	Freq	Shapiro	JCP	29 (1958)	237
$C_4H_{14}B_2$	1,2-Diethyldiborane	2-15 μ	G	Spec, Assign	Lehmann	JCP	33 (1960)	590
$C_4H_{16}O_4$	Methanol (Tetramer)	2700-3700	-	H bond	Thiel	JCP	27 (1957)	95
$C_4H_{16}O_4Si_4$	Tetramethylcyclotetrasiloxane	600-3500	-	Spec, Freq	Sakiyama	BCSJ	31 (1958)	67
$C_4H_{28}O_4Si_4$	Tetradimethylsiloxysilane	2050-2250	Sol	Freq, Struct	Smith	SA	15 (1959)	412
$C_4D_2O_4$	2-Butynedioic acid-d_2	700-1500	S	Spec, Assign	Hadzi	PRS	216 (1953)	247
$C_4D_3F_3$	Trifluorobutyne-d_3	-	-	Struct	Bak	JCP	26 (1957)	241
C_4D_5N	Pyrrole-d_5	750-1950	G,L	Spec,	Lord	JCP	10 (1942)	328
		-	-	Analysis	Halverson	RMP	19 (1947)	87
		-	-	Microwave	Bak	JCP	24 (1956)	720
		400-4000	G,L	Spec, Mol consts	Morcillo	ARS	56B (1960)	231
C_4D_6	Cyclobutene-d_6	250-3500	-	C=C freq, Struct	Lord	AC	6 (1954)	429
		250-3800	L,G	Assign, Spec, I	Lord	JACS	79 (1957)	2401
$C_4D_6O_2$	Diacetyl-d_6	-	-	Spec, Assign	Noack	ZE	64 (1960)	707
$C_4D_6O_4$	Succinic acid-d_6	500-3500	S	Freq, Assign	Shimanouchi	SA	16 (1960)	1328
C_4D_8O	Tetrahydrofuran-d_8	350-3200	S,L,G	Spec, Freq	Palm	SA	16 (1960)	459
C_4D_8O	Ethyl acetate-d_8	700-3500	Sol	Spec, Freq, Assign	Nolin	CJC	34 (1956)	1392
C_4D_9Br	t-Butyl bromide	-	-	Spec, Assign	Zeil	ZE	64 (1960)	769
C_4D_9Cl	t-Butyl chloride	-	-	Spec, Assign	Zeil	ZE	64 (1960)	769

C_4D_{10}	Butane-d_{10}	2-16μ	G	Spec	Thompson	JPC	56	(1952)	243
C_4D_{10}	Isobutane-d_{10}	-	G	Spec, Ident	Shull	JCP	21	(1953)	2024
		3-35μ	G	Spec, Assign	Wilmshurst	CJC	35	(1957)	969
$C_4D_{10}O$	Butanol-d_{10}	-	L,G	Spec, Assign	Tanaka	NKZ	81	(1960)	1042
$C_4D_{12}Si$	Tetramethylsilane-d_{12}	-	-	FC, Vibrations	Kovalev	OS	6	(1959)	594
$C_4D_{14}B_2$	1,2-Diethylborane-d_{12}	2-15μ	G	Spec, Assign	Lehmann	JCP	33	(1960)	590
$C_4Cl_2F_6$	1,2-Dichlorohexafluoro-cyclobutane	8-15μ	G	Spec	Lacher	JACS	71	(1949)	1334
$C_4Cl_2F_6$	cis-1,2-Dichlorohexa-fluorocyclobutane	2.15-15μ	G	Spec	Lacher	JCP	20	(1952)	1014
$C_4Cl_2F_6$	trans-1,2-Dichlorohexa-fluorocyclobutane	2.15-15μ	G	Spec	Lacher	JCP	20	(1952)	1014
$C_4Cl_2F_6$	1,4-Dichlorohexafluoro-2-butene	-	-	Purity test	Haszeldine	JCS	-	(1952)	4423
$C_4Cl_2F_6$	3,4-Dichlorohexafluoro-1-butene	-	-	C=C freq	Tarrant	JACS	77	(1955)	3640
$C_4Cl_2N_2$	Dichlorofumaronitrile	-	-	Freq	Eldred	JACS	75	(1953)	4338
$C_4Cl_3F_7$	Heptafluoro-1,1,1-trichlorobutane	-	L	$-CF_3$ freq	Tiers	JACS	75	(1953)	5978
$C_4Cl_4F_6$	Hexafluoro-1,2,3,4-tetrachlorobutane	-	-	Ident	Haszeldine	JCS	-	(1952)	4423
C_4Cl_6	Hexachloro-1,3-butadiene	-	-	Use as solvent	Ard	AC	23	(1951)	680
		-	-	Freq	Haszeldine	JCS	-	(1952)	4423
		2-15μ	L	Spec	Ard	AC	25	(1953)	1743
		700-1750	S	Spec, Struct	Szasz	TFS	49	(1953)	398
C_4Cl_6S	2,2,3,4,5,5-Hexachloro-3-thiolene	-	-	Struct	Coomadt	JACS	74	(1952)	163
C_4F_6	Hexafluorobutadiene-1,2	-	-	Ident, Spec	Henne	JACS	71	(1949)	298

C_4F_6	Hexafluorobutadiene-1,3	2-15μ	G	Spec, Freq	Haszeldine	JCS	-	(1952)	4423
		-	-	Ident	Haszeldine	JCS	-	(1954)	4026
		-	-	C=C freq	Tarrant	JACS	77	(1955)	3640
		2.5-36.3μ	G	Spec	Albright	JCP	26	(1957)	370
		1500-1800	G	Freq	Burdon	SA	12	(1958)	139
C_4F_6	1,1,1,4,4,4-Hexafluoro-2-butyne	-	-	Freq, Struct	Henne	JACS	71	(1949)	298
		2-15.5μ	G	Spec	Haszeldine	JCS	-	(1952)	2504
		-	-	C=C freq	Haszeldine	JCS	-	(1954)	1261
		280-4000	G	Spec, Assign	Miller	JCP	22	(1954)	1544
C_4F_6	Hexafluorocyclobutene	8-15μ	G	Freq	Lacher	JACS	71	(1949)	1334
		2-15μ	G	Freq, Spec	Haszeldine	JCS	-	(1952)	4423
		2-38μ	L,G	Spec, Assign	Nielsen	JCP	23	(1955)	324
		1500-1800	G	Freq	Burdon	SA	12	(1958)	139
$C_4F_6O_2$	Perfluorobutyrolactone	2-16μ	G	Spec	Hauptschein	JACS	74	(1952)	1974
$C_4F_6O_3$	Hexafluoroacetic anhydride	1205-1884	G	Freq	Fuson	JCP	20	(1952)	1627
		-	-	Analysis	Emmons	JACS	75	(1953)	6047
		1000-1250	Sol	Freq, Analysis	Bourne	JCS	-	(1954)	2006
C_4F_7I	Heptafluoro-4-iodo-1-butene	-	-	Freq	Haszeldine	JCS	-	(1954)	4026
C_4F_7N	Heptafluoropropyl cyanide	4-4.5μ	G	Freq assign	Barr	JCS	-	(1956)	3428
C_4F_7NO	Heptafluoropropyl isocyanate	4-7.5μ	G	Freq, Assign	Barr	JCS	-	(1956)	3428
C_4F_8	Octafluoro-1-butene	-	-	Freq	Hals	JACS	73	(1951)	405
		-	-	C=C freq	Haszeldine	JCS	-	(1952)	4423
		-	-	Ident	Atkinson	JCS	-	(1953)	2082
		2-15μ	G	Spec, Freq	Brice	JACS	75	(1953)	2698
		-	-	Freq	Lazerte	JACS	75	(1953)	4525
		-	-	Group freq	Bellamy	JCS	-	(1958)	2463
C_4F_8	Octafluoro-2-butene	2-15μ	G	Spec, Group freq	Haszeldine	JCS	-	(1952)	4423
		-	-	Ident	Atkinson	JCS	-	(1953)	2082
		2-15μ	G	Spec, Freq	Brice	JACS	75	(1953)	2698
		1500-1800	G	Freq	Burdon	SA	12	(1958)	139
C_4F_8	Octafluorocyclobutane	2-15μ	-	Freq assign	Edgell	JACS	69	(1947)	660
		2-23.1μ	G	IR, Assign	Claasen	JCP	18	(1950)	543

		400-1450	G	IR, Assign	Edgell	JCP	18	(1950)	571
C_4F_8	Perfluoroisobutene	2-15μ	G	Spec, Freq	Brice	JACS	75	(1953)	2698
		-	-	Freq	Bellamy	JCS	-	(1958)	2463
C_4F_8	cis-Perfluoro-2-butene	-	G	Ident, Freq	Henne	JACS	76	(1954)	610
C_4F_8	trans-Perfluoro-2-butene	-	G	Ident, Freq	Henne	JACS	76	(1954)	610
C_4F_8	1,4-Diiodooctafluoro-butane	2-16μ	L	Spec	Hauptschein	JACS	74	(1952)	1974
C_4F_8O	Perfluorotetrahydro-furan	2-16μ	G	Spec	Henne	JACS	74	(1952)	5420
C_4F_9I	Nonafluoro-2-iodo-butane	4.12-14.2μ	-	Ident, I	Haszeldine	JCS	-	(1953)	3559
C_4F_{10}	Decafluoro-n-butane	-	-	Ident	Haszeldine	JCS	-	(1952)	4423
		6.94-13.74μ	-	I, Ident	Haszeldine	JCS	-	(1953)	3559
		-	-	Anal	Ayscough	JCS	-	(1954)	3381
$C_4F_{12}P_2$	Tetrakistrifluoro-methyldiphosphine	4.42-13.37μ	G	Table	Bennett	JCS	-	(1953)	1565
		-	-	Ident	Bennett	JCS	-	(1954)	3896
$C_4F_{12}As_2$	Tetrakistrifluoro-methyldiarsine	-	S,G	Freq	Emeleus	JCS	-	(1953)	1552
C_4N_2	Dicyanoacetylene	420-3400	L,G	Spec, Assign, FC,	Miller	JCP	21	(1953)	110
		420-3200	G	Spec, Assign,	Miller	JCP	23	(1955)	2127
$C_4N_2O_2 \cdot 2H_2O$	Alloxantin dehydrate	2-16μ	S	Spec	Topson	JOC	16	(1951)	1091

C_5HBrF_9NO	2,2,3,3,4,4,5,5,5-Nonafluoro-N-bromovaleramide	-	-	NH freq, Absorption coefficient	Park	JACS	76	(1954) 1388
C_5HClF_8	3-Chloro-1,2,3,4,4,5,5,5-octafluoro-1-pentene	-	-	Ident	Haszeldine	JCS	-	(1953) 1592
$C_5HCl_2F_9$	1,3-Dichloro-1,2,2,3,4,4,5,5,5-nonafluoropentane	3.38-15.32μ	-	Group freq	Haszeldine	JCS	-	(1953) 1592
$C_5HCl_3F_2O$	4,4-Difluoro-2,3,5-trichloro-2-cyclopentenone	-	-	C=O freq, C=C	McBee	JACS	77	(1955) 387
C_5HCl_5O	2,3,4,4,5-Pentachloro-2-cyclopentenone	-	Sol	C=O, C=C freq	McBee	JACS	77	(1955) 559
$C_5HF_7O_2$	2,2,3,3,4,5,5-Heptafluoropent-4-en-1-oic acid	-	-	C=O, C=C freq	Haszeldine	JCS	-	(1954) 4026
C_5HF_8I	3-Iodo-1,1,1,4,4,5,5,5-octafluoro-2-pentene	-	-	Group freq	Leedham	JCS	-	(1954) 1634
C_5HF_9	1,1,3,3,4,4,5,5,5-Nonafluoro-1-pentene	-	-	C=C freq	Lazerte	JACS	77	(1955) 910
C_5HF_{11}	1-Hydroperfluoropentane	-	-	CH freq	Lazerte	JACS	75	(1953) 4525
$C_5H_2D_2O_2$	γ-Pyrone-α-d_2	-	-	Absorption, rates of exchange	Lord	JACS	74	(1952) 2429
		-	-	Production in deutro exchange study	Lord	AC	26	(1954) 429
$C_5H_2ClF_9$	1-Chloro-2,2,3,3,4,4,5,5,5-nonafluoropentane	-	L	$-CF_3$ freq	Tiers	JACS	75	(1953) 5978
$C_5H_2Cl_2F_6$	4,5-Dichloro-1,1,1,4,5,5-hexafluoro-2-pentene	-	-	C=C freq	Tarrant	JACS	75	(1955) 3640
$C_5H_2Cl_8O_3$	Bis-(1,2,2,2-Tetrachloroethyl) carbonate	-	Sol	Freq, Struct, Dissociation	Hales	JCS	-	(1957) 618
$C_5H_2Cl_8O_3$	Di-1,1,1,2-tetrachloroethyl carbonate	-	Sol	Freq, struct	Hales	JCS	-	(1957) 618

$C_5H_2F_6$	1,1,2,5,5,5-Hexafluoro-1,3-pentadiene	-	-	C=C freq	Tarrant	JACS	77 (1955) 3640
$C_5H_2F_8O_2$	2,2,3,4,4,5,5,5-Octafluoropentanoic acid	-	-	Ident	Lazarte	JACS	77 (1955) 910
$C_5H_2F_9I$	1-Iodo-2,2,3,3,4,4,5,5,5-nonafluoropentane	-	L	Group freq	Tiers	JACS	75 (1953) 5978
$C_5H_3DN_4S$	2-Mercaptopurine-d_1	-	S	Struct	Brown	JCS	- (1957) 682
$C_5H_3DN_4S$	6-Mercaptopurine-d_1	-	S	Struct	Brown	JCS	- (1957) 682
$C_5H_3DN_4S$	8-Mercaptopurine-d_1	-	S	Struct	Brown	JCS	- (1957) 682
$C_5H_3D_2N$	Pyridine-2,6-d_2	300-3200	L,G	Spec, Assign	Wilmshurst	CJC	35 (1957) 1183
$C_5H_3D_2N$	Pyridine-3,5-d_2	300-3200	L,G	Spec, Assign	Wilmshurst	CJC	35 (1957) 1183
$C_3H_3D_7O$	3-Pentanone-1,1,1,2,2,4,4-d_7	1300-3050	Sol	Assign, Freq, Ext coeff, Spec	Nolin	JACS	75 (1953) 5626
$C_5H_3BrN_2O_2$	2-Nitro-5-bromopyridine	-	Sol	Spec	Bogomolor	IANS	23 (1959) 1199
$C_5H_3ClF_4O$	1-Methoxy-2-chloro-3,3,4,4-tetrafluorocyclobutene-1	3-15μ	G,L	Spec, Struct	Park	JACS	73 (1951) 2342
$C_5H_3ClN_2O_2$	2-Nitro-5-chloropyridine	-	Sol	Spec	Bogomolor	IANS	23 (1959) 1199
$C_5H_3Cl_2F_3O_2$	3,3-Dichloro-1,1,1-trifluoro-2,4-pentanedione	-	-	C=O Freq, H bond	Park	JACS	75 (1953) 4753
$C_5H_3Cl_2F_5$	3,4-Dichloro-2-methyl-1,1,3,4,4-pentafluoro-1-butene	-	-	C=C freq	Tarrant	JACS	77 (1955) 3640
$C_5H_3Cl_3O$	2,3,4-Trichloro-2-cyclopentenone	-	Sol	C=O, C=C freq	McBee	JACS	77 (1955) 559
$C_5H_3F_5$	1,1,3,4,4-Pentafluoro-2-methyl-1,3-butadiene	-	-	C=C freq	Tarrant	JACS	77 (1955) 3640

$C_5H_3F_7$	3,3,4,4,5,5,5-Heptafluoro-1-pentene	-	-	C=C freq	Pierce	JACS	75	(1953)	5618
C_5H_3NO	2-Cyanofuran	800-1700	Sol	Freq, Assign	Katritzky	JCS	-	(1959)	657
$C_5H_3NO_4$	5-Nitro-2-furfuraldehyde	2-22μ	S	Spec, Assign	Daasch	CIL	-	(1958)	1113
$C_5H_3NO_5$	5-Nitro-2-furoic acid	2-22μ	S	Spec, Assign	Daasch	CIL	-	(1958)	1113
$C_5H_3N_3O_2$	Pyrido-2,3-furoxane	1400-1700	Sol	Band freq	Boyer	JACS	75	(1953)	5298
$C_5H_3N_5O_2$	6-Nitropyridotetrazole	1400-1700	S	Band freq	Boyer	JACS	75	(1953)	5298
$C_5H_3N_5O_2$	8-Nitropyridotetrazole	1400-1700	S	Band freq	Boyer	JACS	75	(1953)	5298
C_5H_4	Pentatetraene	-	-	FC, Bond lengths	Longuet	TFS	48	(1952)	1077
C_5H_4	Pente-1,3-diyne	-	G	Spec, Mol const	Heath	N	172	(1953)	771
C_5H_4DN	Pyridine-2-d_1	-	G	Microwave	Bak	JCP	22	(1954)	2013
		400-3200	L	Spec, Assign	Anderson	JCP	23	(1955)	1047
C_5H_4DN	Pyridine-3-d_1	-	G	Microwave	Bak	JCP	22	(1954)	2013
		400-3200	L	Spec, Assign	Anderson	JCP	23	(1955)	1047
C_5H_4DN	Pyridine-4-d_1	-	G	Microwave	Bak	JCP	22	(1954)	2013
		300-3200	G	Spec, Assign	Anderson	JCP	23	(1955)	1047
		300-3200	L,G	Spec, Assign	Wilmshurst	CJC	35	(1957)	1183
C_5H_4DNO	2-Pyridone-d_1	2000-3500	Sol	Spec, Freq	Bellamy	PRS	257	(1960)	98
C_5H_4ClNO	2-Chloropyridine-N-oxide	800-3000	Sol	I, Band study	Katritzky	JCS	-	(1958)	2195
$C_5H_4D_4O$	Cyclopentanone-$\alpha,\alpha,\alpha',\alpha'$-$d_4$	600-3200	Sol	Solvent dependence	Angell	SA	15	(1959)	926
$C_5H_4D_6O$	3-Pentanone-1,1,1,5,5,5-d_6	1300-3050	Sol	Assign, Ext coefficient,	Nolin	JACS	75	(1953)	5626
$C_5H_4D_6O_2$	2,3,4,4-Tetradeutero-2-dideutromethylbutyric acid	-	-	Spec	Buuhoi	BSCF	-	(1960)	1586

C_5H_4BrN	3-Bromopyridine	600-3000	Sol	Assign	Katritzky	JCS	-	(1958)	3165
C_5H_4BrNO	γ-Bromopyridine-1-oxide	600-3000	Sol	I	Katritzky	JCS	-	(1958)	2192
$C_5H_4BrN_3O_2$	2-Amino-3-bromo-5-nitropyridine	-	Sol	Spec	Bogomolor	IANS	23	(1959)	1199
C_5H_4ClN	3-Chloropyridine	600-3000	Sol	Assign	Katritzky	JCS	-	(1958)	3680
C_5H_4ClNO	3-Chloropyridine-1-oxide	800-3000	Sol	Spec, I, Freq	Katritzky	JCS	-	(1959)	3165
C_5H_4ClNO	γ-Chloropyridine-1-oxide	600-3000	S	I	Katritzky	JCS	-	(1958)	2192
$C_5H_4ClN_3O_2$	2-Amino-3-chloro-5-nitropyridine	-	S	Spec	Bogomolor	IANS	23	(1959)	1199
$C_5H_4Cl_2N_2$	2,4-Dichloro-6-methyl-pyrimidine	1000-2000	L	Spec	Barnes	IEC	15	(1943)	659
$C_5H_4Cl_2N_2$	2-Methyl-4,6-dichloro-pyrimidine	2-25 μ	S	Spec	Short	JCS	-	(1952)	168
$C_5H_4Cl_4NB$	4-Chloropyridine-boron trichloride	-	-	Freq assign	Katritzky	JCS	-	(1959)	2049
C_5H_4FN	2-Fluoropyridine	-	L	Spec	Stephenson	JCP	22	(1954)	1945
C_5H_4FN	3-Fluoropyridine	-	L	Spec	Stephenson	JCP	22	(1954)	1945
$C_5H_4F_8O$	2,2,3,3,4,4,5,5-Octa-fluoropentanol	-	Sol	Freq, H bond	Haszeldine	JCS	-	(1953)	1757
$C_5H_4N_2$	Diazocyclopentadiene	600-4000	G,Sol	Spec	Doering	JACS	75	(1953)	5955
$C_5H_4N_2$	Mesaconodinitrile	-	Sol	Mol struct	Felton	JCS	-	(1955)	2170
$C_5H_4N_2O$	2-Hydroxypyrimidine	680-3800	S,Sol	Spec, Freq, Struct	Spinner	JCS	-	(1960)	1226
$C_5H_4N_2O_2$	2-Nitropyridine	-	S	Spec	Bogomolor	IANS	23	(1959)	1199
$C_5H_4N_2O_2$	3-Nitropyridine	600-3000	Sol	Assign	Katritzky	JCS	-	(1958)	3165

$C_5H_4N_2O_2$	Pyrazinemonocarboxylic acid	-	Sol	Spec	Yoshida	CPBT	7	(1959)	162
$C_5H_4N_2O_2$	3-Pyrazinoic acid	1500-2000	S	Spec, Group freq	Solomons	JACS	75	(1953)	679
$C_5H_4N_2O_3$	3-Nitropyridine-1-oxide	-	Sol	Spec, I, Freq	Katritzky	JCS	-	(1959)	3680
$C_5H_4N_2O_3$	4-Nitropyridine-1-oxide	600-3000	Sol	I	Katritzky	JCS	-	(1958)	2192
$C_5H_4N_2O_4$	Orotic acid	2-12μ	Sol	Spec, Group freq, Assign	Lacher	JPC	59	(1955)	615
$C_5H_4N_2O_5S$	2,4-Dinitro-5-methoxy-thiophene	2-16μ	S	Spec, Band freq	Hurd	JACS	74	(1952)	2965
$C_5H_4N_4$	Purine	2-16μ	S	Spec	Beaman	JACS	76	(1954)	5633
		650-4000	S	Spec, Group freq	Willits	JACS	77	(1955)	2569
		-	Sol	Freq	Brown	JCS	-	(1957)	682
$C_5H_4N_4$	Pyridotetrazole	1400-1700	Sol	Band freq	Boyer	JACS	75	(1953)	5298
$C_5H_4N_4O$	2-Hydroxypurine	-	S	Freq, Struct	Brown	JCS	-	(1957)	682
$C_5H_4N_4O$	6-Hydroxypurine	2-15μ	S	Spec	Blout	JACS	72	(1950)	479
		-	S	Band freq	Schwarz	APS	6	(1952)	15
		2.5-11.5μ	S	Spec, Group freq, Assign	Lacher	JPC	59	(1955)	615
		-	S	Freq, Struct	Brown	JCS	-	(1957)	682
$C_5H_4N_4O$	8-Hydroxypurine	-	S	Freq, Struct	Brown	JCS	-	(1957)	682
$C_5H_4N_4O_2$	Xanthine	2-15μ	S	Spec	Blout	JACS	72	(1950)	479
		-	S	Band freq	Schwarz	APS	6	(1952)	15
		2.5-11.5μ	S	Spec, Group freq, Assign	Lacher	JPC	59	(1955)	615
$C_5H_4N_4O_3$	Uric acid	8.5-13μ	S	Band freq	Schwarz	APS	6	(1952)	15
		2.5-11.5μ	Sol	Spec, Assign, Group freq	Lacher	JCP	59	(1955)	615
$C_5H_4N_4S$	2-Mercaptopurine	730-2974	S	I, Group freq	Willits	JACS	77	(1955)	2569
		-	S	Freq, Struct	Brown	JCS	-	(1957)	682
$C_5H_4N_4S$	6-Mercaptopurine	-	S	Freq, Struct	Brown	JCS	-	(1957)	682
$C_5H_4N_4S$	8-Mercaptopurine	-	S	Freq, Struct	Brown	JCS	-	(1957)	682
C_5H_4OS	1,4-Thiapyrone	710-1609	S	I, Group freq	Tarbell	JACS	76	(1954)	2451

C_5H_4OS	2-Thiofurfural	800-2000	L	I	Katritzky	JCS	-	(1959)	3500
$C_5H_4O_2$	Furfural	2-12 μ	L	Spec	Rogers	JACS	60	(1938)	2619
		4-9 μ	-	Spec	Randall	JAP	10	(1939)	768
		1050-1800	-	Spec, C=O freq	Barnes	IEC	15	(1943)	659
		1700	Sol	C=O freq	Flett	TFS	44	(1948)	767
		700-3500	L,Sol,G	I, Freq	Glusker	SA	6	(1954)	434
		-	G,Sol	Spec	Seutaka	GCI	86	(1956)	783
		2-22 μ	S	Spec, Assign	Daash	CIL	-	(1958)	1113
		800-1700	Sol	Freq, Assign	Katritzky	JCS	-	(1959)	657
$C_5H_4O_2$	trans-2-Penten-4-ynoic acid	-	Sol	Group freq, I	Allen	JCS	-	(1955)	1874
$C_5H_4O_2$	α-Pyrone	1550-1850	Sol	Freq, I	Jones	CJC	37	(1959)	2007
$C_5H_4O_2$	γ-Pyrone	-	-	Reagent in deut exchange study	Lord	AC	26	(1954)	249
		1550-1850	Sol	Freq, I	Jones	CJC	37	(1959)	2007
$C_5H_4O_3$	2-Furoic acid	700-4000	S,L	C=O freq, Association	Flett	JCS	-	(1951)	962
		2-22 μ	S	Spec, Assign	Daash	CIL	-	(1958)	1113
$C_5H_4O_3$	1,2,4-Cyclopentane-trione	2-15 μ	S	Spec, Ident	Booche	JACS	75	(1953)	1732
$C_5H_4O_3$	Cyclopropane-1,2-di-carboxylic acid anhydride	1750-1850	Sol	Freq, Assign	Douben	JOC	24	(1959)	1595
$C_5H_4O_3$	Glutaconic acid anhydride	6 μ	S	Band freq	Crow	JCS	-	(1952)	3705
$C_5H_4O_3$	2-Methylmaleic anhydride	1750-1850	Sol	Freq, Assign	Douben	JOC	24	(1959)	1595
$C_5H_4O_3S$	1,4-Thiapyrone sulfone	850-1657	S	I, Group freq	Tarbell	JACS	76	(1954)	2451
$C_5H_4O_4$	Methyl acetylene-dicarboxylate	2-15 μ	L	Spec, Assign	Walton	JACS	79	(1957)	3985
$C_5H_4O_4$	Penta-2,3-diendioic acid	-	S	Band freq, Struct	Jones	JCS	-	(1954)	3208

$C_5H_5DF_4NB$	Pyridinium tetrafluoro-borate-d_1	-	S	H bond, Band freq	Nuttall	JCS	- (1960) 4965
$C_5H_5D_5O$	3-Pentanone-1,1,1,2,2,-d_5	1300-3050	Sol	Assign, Ext coefficient, Spec	Nobin	JACS	75 (1953) 5626
$C_5H_5BrN_2$	2-Amino-5-bromopyridine	2.97-12.30μ	Sol	Group freq	Hurd	JACS	77 (1955) 117
		-	S	Spec	Bogomolor	IANS	23 (1959) 1199
$C_5H_5BrN_2O_2$	1-Methyl-5-bromouracil	-	S	Band freq	Brown	JCS	- (1955) 211
$C_5H_5BrN_2O_2$	3-Methyl-5-bromouracil	-	S	Band freq	Brown	JCS	- (1955) 211
$C_5H_5Br_3NB$	Pyridine-boron tribromide complex	-	-	Freq	Katritzky	JCS	- (1959) 2049
C_5H_5Cl	1-Chloro-trans-2-penten-4-yne	-	Sol	Group freq, I	Allan	JCS	- (1955) 1874
$C_5H_5ClN_2$	2-Amino-5-chloro-pyridine	-	S	Spec	Bogomolor	IANS	23 (1959) 1199
$C_5H_5ClN_2O_2$	5-Chloromethyluracil	-	-	Group freq	West	JACS	76 (1954) 3146
$C_5H_5Cl_2F_3O$	1-Ethoxy-1,2-dichloro-3,3,3-trifluoro-1-propene	2-15μ	G	Spec, Struct	Park	JACS	74 (1952) 4104
$C_5H_5Cl_3F_4Si$	2,2,3,3-Tetrafluorocyclo-butylmethyltrichloro-silane	10.85-11.1μ	-	Freq	Park	JOC	25 (1960) 1628
$C_5H_5Cl_3NB$	Pyridine-boron trichloride complex	1400-1600	-	I	Katritzky	JCS	- (1958) 4162
		-	-	Freq assign	Katritzky	JCS	- (1959) 2049
		600-3500	S	Spec	Baker	JACS	82 (1960) 1923
		800-3300	Sol	Complex study	Greenwood	JCS	- (1960) 1130
		400-4000	S,L	Struct, Assign	Waddington	JCS	- (1960) 2339
$C_5H_5Cl_5F_2Si$	2,2-Dichloro-3,3-difluoro-cyclobutylmethyltri-chlorosilane	10.85-11.1μ	-	Freq	Park	JOC	25 (1960) 1628
$C_5H_5F_3$	1,1,2-Trifluoro-1,3-pentadiene	-	-	C=C freq	Tarrant	JACS	76 (1954) 5423

$C_5H_5F_3$	1,1,2-Trifluoro-1,4-pentadiene	-	-	C=C freq	Tarrant	JACS	76	(1954)	5423
$C_5H_5F_3NB$	Pyridine-boron trifluoride complex	-	Sol	Freq assign	Katritzky	JCS	-	(1959)	2049
		400-4000	S,L	Struct, Assign	Waddington	JCS	-	(1960)	2339
$C_5H_5F_3O_2$	1,1,1-Trifluoro-2,4-pentadiene	-	-	H bond, C=O freq	Park	JACS	75	(1953)	4753
$C_5H_5F_5OS$	Ethylthio pentafluoro-propionate	2-46 μ	L	Spec, Band freq	Hauptschein	JACS	74	(1952)	4005
$C_5H_5F_5O_2$	Ethyl pentafluoropropionate	-	Sol	C=O freq	Bender	JACS	75	(1953)	5986
		-	-	C=O freq	Haszeldine	JCS	-	(1953)	1548
		2-15 μ	L	Spec	Husted	JACS	75	(1953)	1605
$C_5H_5F_7O$	2,2,3,3,4,4,4-Heptafluoro-2-pentanol	-	Sol	OH freq, H bond	Haszeldine	JCS	-	(1953)	1757
$C_5H_5I_2N$	Pyridine-iodine complex	-	Sol	Struct	Reid	JACS	76	(1954)	3869
		-	Sol	Freq	Glusker	JCS	-	(1955)	471
C_5H_5N	4-Cyanobut-1-yne	-	-	C≡N	Shaw	JCS	-	(1954)	3217
C_5H_5N	1-Cyano-1,3-butadiene	-	-	C≡N freq	Kitson	AC	24	(1952)	334
		-	Sol	Group freq, Spec	Potts	SA	15	(1959)	679
C_5H_5N	cis-1-Cyano-1,3-butadiene	2-15 μ	L	Spec, Config	Snyder	JACS	75	(1953)	4742
		-	-	Ident	Wise	JACS	76	(1954)	3074
C_5H_5N	trans-1-Cyano-1,3-butadiene	2-15 μ	L	Spec, Config	Snyder	JACS	75	(1953)	4742
C_5H_5N	Pyridine	-	L	Beer's law, Association	Baly	JCS	-	(1915)	1121
		-	-	C-H freq	Bonino	TFS	25	(1929)	876
		0.8-2.5 μ	L	Spec	Sappenfield	PR	33	(1929)	37
		-	L	Band freq	Venkateswaran	JPC	34	(1930)	145
		52-152 μ	L,Sol	Disperson	Cartwright	PRS	154	(1936)	138
		-	-	Effect as solvent on O band	Gordy	JCP	7	(1939)	93
		-	-	Effect as solvent on H-C band	Gordy	JCP	7	(1939)	163
		-	-	H bond	Errero	JCP	8	(1940)	63
		2-16 μ	G	Spec	Turkevich	JCP	11	(1943)	328
		-	-	Assign, Thermo	Kline	JCP	12	(1944)	300
		3-20 μ	L	Spec, Use as solvent	Torkington	TFS	41	(1945)	184
		5-8 μ	L	Vibration analysis	Depaigne-Delay	JPR	7	(1946)	33
		650-2040	L	Spec	Cannon	SA	4	(1951)	373

		2800-4200	L	Spec	Coulson	JCS	-	(1951)	2125
		6μ	-	Spec, Band freq, Struct	Angyal	JCS	-	(1952)	2911
		-	L,Sol	Analysis for ext coeff	Densham	JCS	-	(1952)	2433
		15-25μ	L	Transparent solvent	Marrison	JSI	29	(1952)	233
		2-15μ	L	Spec, Solvent	Pristera	APS	6	(1952)	29
		-	-	Group freq	Short	JCS	-	(1952)	168
		-	-	Ident	VanMeter	AC	24	(1952)	1758
		2-16μ	L	Spec	Anderson	JOSA	43	(1953)	221
		250-3500	L	IR, Spec, Assign	Corrsin	JCP	21	(1953)	1170
		-	-	Microwave	Bak	JCP	22	(1954)	2013
		-	-	Microwave	Bak	JCP	22	(1954)	565
		702-4600	G,L	I	Biddisembe	JCS	-	(1954)	1263
		20-40KMC	G	Microwave	DeMore	JCP	22	(1954)	876
		22140-27300 Mc	G	Microwave	McCulloh	JCP	22	(1954)	681
		4.5-5.5μ	L	I	Schurmann	AC	26	(1954)	1263
		-	-	Freq	Anderson	JCP	23	(1955)	1047
		25-100μ	L	Absorption peaks	Cook	AC	28	(1956)	993
		-	L	Spec	Levi	AC	28	(1956)	1591
		3-4μ	L,Sol	C-H stretch	Tallent	AC	28	(1956)	953
		-	-	FC, Bond study	Anno	BCSJ	30	(1957)	638
		670-5000	G,L	Spec	Long	TFS	53	(1957)	1171
		300-3200	L,G	Spec, Assign	Wilmshurst	CJC	35	(1957)	1183
		18000-27000 MHz	G	Microwave, Struct, Mol consts	Bak	JMS	2	(1958)	361
		400-1700	-	Freq	Bohon	AC	30	(1958)	245
		-	S	Spec	Chiorboli	ANCR	48	(1958)	355
		-	-	Calculation of B" & D_J	Danti	SA	13	(1958)	180
		2.16-16.63μ	L	Purification	Helm	JPC	62	(1958)	858
		1400-1600	Sol	I, Freq	Katritzky	JCS	-	(1958)	4162
		650-4000	Sol,L	Spec, Freq, H bond	Heinert	JACS	81	(1959)	3933
		-	S	Spec	Yoshida	CPBT	7	(1959)	162
		400-3000	-	Spec	Rao	ZAUA	304	(1960)	176
		680-3800	Sol,S	Spec, Freq, Struct	Spinner	JCS	-	(1960)	1226
$C_5H_5N.HBr$	Pyridinium bromide	1000-3500	S,Sol	Freq	Chenan	CJC	36	(1958)	1181
		2000-4000	S	H bond	Brisette	CJC	38	(1960)	34
		-	S	H bond, Band freq	Nuttall	JCS	-	(1960)	4965
$C_5H_5N.HCl$	Pyridinium chloride	-	Sol	Band freq	Barrow	JACS	76	(1954)	5211
		1000-3500	Sol	Freq	Chenon	CJC	36	(1958)	1181
		600-4000	S	Freq, Assign	Stone	JCS	-	(1958)	52
		2000-4000	S	H bond	Brisette	CJC	38	(1960)	34
		-	S	H bond,Freq	Nuttall	JCS	-	(1960)	4965

$C_5H_5N.HI$	Pyridinium iodide	1000-3500	Sol,S	Freq	Chenon	CJC	36	(1958)	1181
		2000-4000	S	H bond	Brisette	CJC	38	(1960)	34
		-	S	H bond, Freq	Nuttall	JCS	-	(1960)	4965
$C_5H_5N.2HF$	Pyridinium bifluoride	-	S	H bond, Freq	Nuttall	JCS	-	(1960)	4965
$C_5H_5N.HClO_4$	Pyridinium perchlorate	-	S	H bond, Freq	Nuttall	JCS	-	(1960)	4965
$C_5H_5N.HNO_3$	Pyridinium nitrate	-	S	H bond, Freq	Nuttall	JCS	-	(1960)	4965
C_5H_5NO	Pyridone-2	-	-	C=O	Berson	JACS	77	(1955)	1281
		-	S,Sol	Struct	Gibson	JCS	-	(1955)	4340
		-	L,G	Spec, Freq, Assign, Struct	Nakamura	NKZ	80	(1959)	231
		2000-3500	Sol	Freq, Spec	Bellamy	PRS	257	(1960)	98
		800-4000	Sol	Spec, Freq	Katritzky	JCS	-	(1960)	2947
C_5H_5NO	2-Hydroxypyridine	3650-1400	S,Sol	Taut, Freq	Mason	JCS	-	(1960)	4874
		680-1800	Sol	Spec, Freq, Struct, Assign	Albert	JCS	-	(1960)	1221
		680-3800	Sol	Spec, Struct, Freq	Spinner	JCS	-	(1960)	1226
		680-3800	Sol,S	Struct, Band peaks	Spinner	JCS	-	(1960)	1232
C_5H_5NO	3-Hydroxypyridine	-	S,Sol	Spec	Gibson	JCS	-	(1955)	4340
		-	S,Sol	Taut, Freq	Mason	JCS	-	(1957)	4874
		3650-1400	Sol	Spec, Assign	Mason	JCS	-	(1957)	4874
		650-4000	Sol,L	Spec, Freq, H bond	Heinert	JACS	81	(1959)	3933
		700-3800	Sol	Spec, Struct, Freq	Albert	JCS	-	(1960)	1221
		680-3800	S,Sol	Spec, Freq, Struct	Spinner	JCS	-	(1960)	1226
		680-3800	S,Sol	Struct, Band peaks	Spinner	JCS	-	(1960)	1232
C_5H_5NO	4-Hydroxypyridine	1400-3650	Sol,S	Spec, Assign, Taut	Mason	JCS	-	(1957)	4874
		700-3800	Sol	Spec, Struct, Freq	Albert	JCS	-	(1960)	1221
		680-1800	S,Sol	Spec, Freq, Struct	Spinner	JCS	-	(1960)	1226
		680-3800	S,Sol	Struct, Band peaks	Spinner	JCS	-	(1960)	1232
C_5H_5NO	Pyridine-1-oxide	1400-1600	-	I, Freq	Katritzky	JCS	-	(1958)	4162
C_5H_5NO	Pyridine-N-oxide	400-4000	Sol,S	Spec, Assign, Freq	Ito	BCSJ	28	(1955)	353
C_5H_5NO	Pyridone-4	-	L,G	Spec, Freq, Assign, Struct	Nakamura	NKZ	80	(1959)	231
		800-4000	S	Spec, Freq	Katritzky	JCS	-	(1960)	2947

C_4H_5NO	2-Pyrrolecarboxylic aldehyde	-	S,Sol	Freq	Mirone	ANCR	48	(1958)	72
C_5H_5NOS	N-Hydroxypyrid-2-thione	800-4000	S	Spec, Freq	Katritzky	JCS	-	(1960)	2947
C_5H_5NOS	N-Hydroxypyrid-4-thione	800-4000	S	Spec, Freq	Katritzky	JCS	-	(1960)	2947
C_5H_5NOS	2-Thiofurfural aldoxime	800-2000	L	I	Katritzky	JCS	-	(1959)	3500
$C_5H_5NO_2$	2-Carboxypyrrole	-	S,Sol	Spec	Scrocco	AAN	20	(1956)	795
$C_5H_5NO_2$	3-Carboxypyrrole	-	S,Sol	Spec	Scrocco	AAN	20	(1956)	795
$C_5H_5NO_2$	Furfural aldoxime	800-1700	Sol	Freq, Assign	Katritzky	JCS	-	(1959)	657
$C_5H_5NO_2$	2,4-Dihydroxypyridine	1400-3650	S,Sol	Freq, Taut	Mason	JCS	-	(1957)	4874
$C_5H_5NO_2$	2,5-Dihydroxypyridine	600-4000	S	Spec	Adams	JACS	69	(1947)	1806
$C_5H_5NO_2$	Furoic amide	1500-1750	S,Sol	Spec, Assign	Rechards	JCS	-	(1947)	1248
$C_5H_5NO_2$	N-Hydroxypyridone-2	800-4000	Sol	Spec, Freq	Katritzky	JCS	-	(1960)	2947
$C_5H_5NO_2$	3-Hydroxy-4-pyridone	650-3900	S	Spec	Adams	JACS	69	(1947)	1810
$C_5H_5NO_2 \cdot H_2O$	3-Hydroxy-4-pyridone hydrate	650-3900	S	Spec	Adams	JACS	69	(1947)	1810
$C_5H_5NO_2S$	5-Ethylidenthiazolidine-2,4-dione	3-9μ	-	Assign, Struct	Durden	JACS	81	(1959)	1943
$C_5H_5NO_5$	1-Nitro-1,2-dicarboxy-propane anhydride	-	-	Spec	Boer	RTC	79	(1960)	231
$C_5H_5NO_6$	1-Nitro-1,2-dicarboxy-cyclopropane	-	-	Spec	Boer	RTC	79	(1960)	231
C_5H_5NS	2-Mercaptopyridine	700-3800	S,Sol	Freq, Assign	Spinner	JCS	-	(1960)	1237
C_5H_5NS	3-Mercaptopyridine	700-3800	S,Sol	Freq, Assign	Spinner	JCS	-	(1960)	1237
C_5H_5NS	4-Mercaptopyridine	700-3800	S,Sol	Freq, Assign	Spinner	JCS	-	(1960)	1237
C_5H_5NS	Thiapyridone-2	1100-1150	Sol	C=S band study	Spinner	JOC	23	(1958)	2037
		2500-3500	Sol	Freq, Spec	Bellamy	PRS	257	(1960)	98

		800-4000	Sol	Spec, Freq	Katritzky	JCS	-	(1960)	2947
C_5H_5NS	Thiapyridone-4	1100-1150	Sol	C=S band study	Spinner	JOC	23	(1958)	2037
		800-4000	Sol	Spec, Freq	Katritzky	JCS	-	(1960)	2947
$C_5H_5N_3O_2$	2-Amino-3-nitropyridine	-	S	Spec	Bogomolor	IANS	23	(1959)	1199
$C_5H_5N_3O_2$	2-Amino-5-nitropyridine	-	S	Spec	Bogomolor	IANS	23	(1959)	1199
$C_5H_5N_3O_4$	1-Methyl-5-nitrouracil	-	S	Band freq	Brown	JCS	-	(1955)	211
$C_5H_5N_3O_4$	3-Methyl-5-nitrouracil	-	S	Band freq	Brown	JCS	-	(1955)	211
$C_5H_5N_5$	Adenine	2-15μ	S	Spec	Blout	JACS	72	(1950)	479
		2.5-11.5μ	Sol	Spec, Group freq, Assign	Lacher	JPC	59	(1955)	615
$C_5H_5N_5$	2-Aminopurine	786-3240	S	I, Group freq	Willits	JACS	77	(1955)	2569
$C_5H_5N_5.HCl$	Adenine hydrochloride	700-2900	S,Sol	Spec, Struct	Bentley	JCS	-	(1951)	2301
$C_5H_5N_5.H_2SO_4$	Adenine sulfate	750-2000	S	Spec	Barnes	IEC	15	(1943)	659
		-	S	Band freq, Table	Schwarz	APS	6	(1952)	15
$C_5H_5N_5O$	Guanine	2-15μ	S	Spec	Blout	JACS	72	(1950)	479
		-	S	Pressed cake with KBr illustration of preparation	Stimson	AC	23	(1951)	1050
		-	S	Table, Band freq	Schwarz	APS	6	(1952)	15
		2-12μ	S	Spec	Scott	JACS	74	(1952)	275
		2.5-11.5μ	Sol	Spec, Group freq	Lacher	JPC	59	(1955)	615
$C_5H_5N_5O.HCl$	Guanine hydrochloride	-	S	Illustration sample preparation	Stimson	AC	23	(1951)	1050
$C_5H_5N_5S$	Thiodenine	2-12μ	Sol	Spec, Group freq, Assign	Lacher	JPC	59	(1955)	615
$C_5H_5N_5S$	6-Amino-2-mercaptopurine	782-2987	S	Table, I, Group freq	Willits	JACS	77	(1955)	2569
C_5H_6	Cyclopentadiene	-	-	Quant mech	Mulliken	JCP	7	(1939)	121
		-	-	Microwave	Laurie	JCP	24	(1956)	635
C_5H_6	2-Methyl-1-buten-3-yne	-	-	Spec	Petrov	ZOK	27	(1957)	1167

C_5H_6	4-Methyl-1-buten-3-yne	-	-	Spec	Petrov	ZOK	27	(1957)	1167
C_5H_6	cis-Pent-2-en-4-yne	723-3390	L, Sol	Band freq, I	Allan	JCS	-	(1953)	3314
		-	Sol	Group freq, I	Allan	JCS	-	(1955)	1874
C_5H_6	trans-Pent-2-en-4-yne	900-3390	L, Sol	Band freq, I	Allan	JCS	-	(1953)	3314
		-	Sol	Group freq, I	Allan	JCS	-	(1955)	1874
$C_5H_6D_2O_2$	cis-Methyl crotonate-d_2	700-1800	Sol	Freq	Dalton	JCS	-	(1960)	3681
$C_5H_6D_2O_2$	trans-Methyl crotonate-d_2	700-1800	Sol	Freq	Dalton	JCS	-	(1960)	3681
$C_5H_6D_2O_4$	Glutaric acid-O-d_2	500-1500	S	Spec, Assign	Hadzi	PRS	216	(1953)	247
$C_5H_6D_4O$	3-Pentanone-2,2,4,4,-d_4	1300-3050	Sol	Assign, Ext coefficient, Spec	Nolin	JACS	75	(1953)	5626
$C_5H_6ClN_3$	2-Amino-4-methyl-6-chloropyrimidine	2-25 μ	S	Spec, Group freq	Short	JCS	-	(1952)	168
$C_5H_6ClN_3$	2-Chloro-4-amino-6-methylpyrimidine	2-25 μ	S	Spec, Group freq	Short	JCS	-	(1952)	168
$C_5H_6ClN_3$	2-Methyl-4-amino-6-chloropyrimidine	2-25 μ	S	Spec, Group freq	Short	JCS	-	(1952)	168
$C_5H_6ClN_3O_2$	2-Chloro-4,6-dimethoxy-5-triazine	2-25 μ	Sol	Assign	Reimschuesse	JACS	82	(1960)	3756
$C_5H_6Cl_2O_2$	3,3-Dichloro-2,4-pentanedione	-	-	C=O freq	Park	JACS	75	(1953)	4753
$C_5H_6Cl_4NB$	Pyridinium tetrachloroborate	600-3500	S	Spec	Kynaston	JCS	-	(1960)	1772
		-	S	H bond, Band freq	Nuttall	JCS	-	(1960)	4965
$C_5H_6F_2Se$	2-Methylselenophene	600-3000	Sol	Freq	Chumaevskii	OS	6	(1959)	45
$C_5H_6F_2Se$	3-Methylselenophene	600-3000	Sol	Freq	Chumaevskii	OS	6	(1959)	45
$C_5H_6F_4NB$	Pyridinium tetrafluoroborate	-	S	H bond, Band freq	Nuttall	JCS	-	(1960)	4965
$C_5H_6F_5I$	1-Iodo-1,3,5,5,5-pentafluoropentane	-	-	Struct	Haszeldine	JCS	-	(1953)	1199

$C_5H_6F_6NP$	Pyridinium hexafluorophosphate	-	S	H bond, Band freq	Nuttall	JCS	-	(1960)	4965
$C_5H_6N_2$	2-Aminopyridine	3-6 μ	Sol	Spec, Struct	Angyal	JCS	-	(1952)	2911
		-	Sol	Freq, Struct	Goulden	JCS	-	(1952)	2739
		-	Sol	Freq, FC, H bond	Short	JCS	-	(1952)	4584
		3000-3700	Sol	Freq, Taut	Soda	BCSJ	30	(1957)	499
		3 μ	Sol	Freq, FC	Mason	JCS	-	(1958)	3619
		-	S	Spec	Bogomolor	IANS	23	(1959)	1199
		-	-	Absorption, Freq, Assign, Struct	Katritzky	JCS	-	(1959)	3674
		-	-	Spec	Sheinker	DANS	131	(1960)	1366
$C_5H_6N_2$	3-Aminopyridine	3-6 μ	Sol	Spec, Struct	Angyal	JCS	-	(1952)	2911
		-	Sol	Freq, Struct	Goulden	JCS	-	(1952)	2939
		-	Sol	Freq, FC, H bond	Short	JCS	-	(1952)	4584
		600-3000	Sol	Assign, Symmetry	Katritzky	JCS	-	(1958)	3165
		3 μ	Sol	Freq, FC	Mason	JCS	-	(1958)	3619
		-	-	Absorption, Freq, Assign, Struct	Katritzky	JCS	-	(1959)	3674
$C_5H_6N_2$	4-Aminopyridine	3-6 μ	Sol	Spec, Struct, Freq	Angyal	JCS	-	(1952)	2911
		-	Sol	Freq, Struct	Goulden	JCS	-	(1952)	2939
		-	Sol	Freq, FC, H bond	Short	JCS	-	(1952)	4584
		3 μ	Sol	Freq, FC	Mason	JCS	-	(1958)	3619
		-	-	Absorption, Freq, Assign, Struct	Katritzky	JCS	-	(1959)	3674
$C_5H_6N_2$	2,2-Dicyanopropane	7.7 μ	-	Spec, Freq	McBride	JACS	74	(1952)	5247
$C_5H_6N_2$	Glutaronitrile	-	-	C=N freq	Kitson	AC	24	(1952)	334
		-	-	I	Thompson	TFS	52	(1956)	1451
		2200-2300	Sol	Freq, Struct	Jesson	SA	13	(1958)	217
$C_5H_6N_2$	2-Vinylimidazole	-	-	Struct	Lawson	JACS	75	(1953)	3398
$C_5H_6N_2O$	Acetylimidazole	2-9 μ	Sol	Spec, Freq	Jenecks	ABB	88	(1960)	193
$C_5H_6N_2O$	2-Aminopyridine oxide	800-3000	Sol	I	Katritzky	JCS	-	(1958)	2195
		-	-	Absorption, Freq, Assign, Struct	Katritzky	JCS	-	(1959)	3674
$C_5H_6N_2O$	1,4-Dihydro-1-methyl-4-oxopyrimidine	-	S	C=O freq	Brown	JCS	-	(1955)	211

$C_5H_6N_2O$	1,6-Dihydro-1-methyl-6-oxopyrimidine	-	S	C=O freq	Brown	JCS	-	(1955)	211
$C_5H_6N_2O$	4-Hydroxy-6-methyl-pyrimidine	2-25μ	S	Spec, Group freq	Short	JCS	-	(1952)	168
$C_5H_6N_2O$	3-Methyl-6-pyridazone	-	Sol	Struct, Band freq	Overend	JCS	-	(1950)	3500
$C_5H_6N_2O$	2-Methoxypyrimidine	1300-1800	L	Spec, Struct, Group freq	Brown	JCS	-	(1953)	331
		-	S	Band freq, I	Brown	JCS	-	(1955)	211
$C_5H_6N_2O$	4-Methoxypyrimidine	1300-1800	L	Spec, Struct, Group freq	Brown	JCS	-	(1953)	331
		-	S	Band freq, I	Brown	JCS	-	(1955)	211
$C_5H_6N_2O$	1-Methyl-2-pyrimidone	-	S	C=O freq	Brown	JCS	-	(1955)	211
$C_5H_6N_2OS$	2-Amino-5-ethylidene-2-thiazolin-4-one	3-9μ	-	Struct assign	Durden	JACS	81	(1959)	1943
$C_5H_6N_2OS$	2-Mercapto-4-hydroxy-6-methylpyrimidine	2-15μ	S	Spec, Group freq, Assign	Brownlie	JCS	-	(1950)	3062
		2-25μ	S	Spec, Group freq	Short	JCS	-	(1952)	168
$C_5H_6N_2OS$	6-Methyl-2-thiouracil	2-12μ	Sol	Spec, Group freq, Assign	Lacher	JPC	59	(1955)	615
$C_5H_6N_2OS$	Thiothymine	2-12μ	Sol	Spec, Group freq, Assign	Lacher	JPC	59	(1955)	615
$C_5H_6N_2O_2$	Imidazoleacetic acid	-	-	Ident	Tabor	JACS	77	(1955)	505
$C_5H_6N_2O_2$	2,4-Dihydroxy-1-methyl-pyrimidine	-	S,Sol	Freq, Taut	Mason	JCS	-	(1957)	4874
$C_5H_6N_2O_2$	2,4-Dihydroxy-3-methyl-pyrimidine	-	S,Sol	Freq, Taut	Mason	JCS	-	(1957)	4874
$C_5H_6N_2O_2$	2,4-Dihydroxy-6-methyl-pyrimidine	2-25μ	S	Spec, Group freq	Short	JCS	-	(1952)	168
$C_5H_6N_2O_2$	2,6-Dihydroxy-5-methyl-pyrimidine	2-15μ	S	Spec	Blout	JACS	72	(1950)	479
		-	S	Band freq	Schwary	APS	6	(1952)	15
		2.5-11.5μ	Sol	Spec, Group freq, Assign	Lacher	JPC	59	(1955)	615
$C_5H_6N_2O_2$	2-Methyl-4,5-dihydroxy-pyrimidine	650-3600	S	Freq, Struct	Tanner	SA	8	(1956)	9

$C_5H_6N_2O_2$	2-Methyl-4,6-dihydroxy-pyrimidine	2-25μ 650-3600	S S	Spec, Group freq Freq, Struct, H bond	Short Tanner	JCS SA	- (1952) 8 (1956)	168 9
$C_5H_6N_2O_2$	6-Methyluracil	2-12μ	Sol	Spec, Group freq, Assign	Lacher	JPC	59 (1955)	615
$C_5H_6N_2O_2$	Thymine	3-9.9μ	-	Struct	Ulbricht	NWS	45 (1958)	416
$C_5H_6N_2O_3$	2-Methyl-4,5,6-tri-hydroxypyrimidine	650-3600	S	Freq, Struct	Tanner	SA	8 (1956)	9
$C_5H_6N_2O_4$	Fumarylurea	-	S	C=O, C=C freq	Murray	JACS	76 (1954)	3665
$C_5H_6N_2O_4$	Maleylurea	-	S	C=O, C=C freq	Murray	JACS	76 (1954)	3665
$C_5H_6N_2O_4$	DL-Dihydroötic acid	-	-	Distinction of preparation from other methods	Miller	JACS	75 (1953)	6086
$C_5H_6N_2O_4$	5,6-Dihydroötic acid	-	S	Group freq	Murray	JACS	76 (1954)	3665
$C_5H_6N_2S$	2-Methylmercapto-pyrazine	700-3800	S,Sol	Freq, Assign	Spinner	JCS	- (1960)	1237
$C_5H_6N_2S$	4-Methylmercapto-pyrazine	700-3800	S,Sol	Freq, Assign	Spinner	JCS	- (1960)	1237
$C_5H_6N_2S$	N-Methyl-2-thiopyrazone	700-3800	S,Sol	Freq, Assign	Spinner	JCS	- (1960)	1237
$C_5H_6N_2S$	N-Methyl-2-thiopyrimidone	700-3800	S,Sol	Freq, Assign	Spinner	JCS	- (1960)	1237
$C_5H_6N_2S$	N-Methyl-4-thiopyrimidone	700-3800	S,Sol	Freq, Assign	Spinner	JCS	- (1960)	1237
$C_5H_6N_2S$	3-N-Methyl-4-thiopyrimidine	700-3800	S,Sol	Freq, Assign	Spinner	JCS	- (1960)	1237
$C_5H_6N_4O$	2-Hydroxy-9-methyl-purine	-	S,Sol	Freq, Struct	Brown	JCS	- (1957)	682
$C_5H_6N_4O$	6-Hydroxy-9-methyl-purine	- 1400-3650	S,Sol Sol	Freq, Struct Spec, Assign	Brown Mason	JCS JCS	- (1957) - (1957)	682 4874
$C_5H_6N_4O$	8-Hydroxy-9-methyl-purine	-	S,Sol	Freq, Struct	Brown	JCS	- (1957)	682
$C_5H_6N_4S$	8-Mercapto-9-methyl-purine	-	Sol	Freq, Struct	Brown	JCS	- (1957)	682
$C_5H_6N_6$	2,6-Diaminopurine	711-3474	-	Group freq	[illegible]	[illegible]	[illegible]	[illegible]

$C_5H_6N_6$	2,6-Diaminopurine	711-3434	S	I, Group freq	Willits	JACS	77	(1955)	2569
C_5H_6O	2-Methoxy-1-buten-3-yne	-	-	H bond	Kuznetsov	ZOK	525	(1958)	525
C_5H_6O	2-Cyclopenten-1-one	-	L	Ident	Johnson	JACS	76	(1954)	6266
C_5H_6O	2-Methylfuran	6.20-11.24 μ	-	I, Ext coefficient	Hurd	JACS	76	(1954)	50
		800-1700	Sol	Freq, Assign	Katritzky	JCS	-	(1959)	657
C_5H_6O	trans-2-Penten-4-yn-1-ol	-	Sol	Group freq, I	Allan	JCS	-	(1955)	1874
C_5H_6OS	2-Methoxythiophene	-	S	Group freq	Sice	JACS	75	(1953)	3697
		-	-	Ident	Herz	JACS	77	(1955)	3529
$C_5H_6O_2$	Furfuryl alcohol	2-12 μ	L	Spec	Rogers	JACS	60	(1938)	2619
		750-3300	-	Group freq	Cocker	JCS	-	(1953)	2540
		3	Sol	Freq, H bond	Flett	SA	10	(1958)	21
		800-1700	Sol	Freq, Assign	Katritzky	JCS	-	(1959)	657
$C_5H_6O_2$	α-Angelica lactone	1550-1850	Sol	Freq	Jones	CJC	37	(1959)	2007
$C_5H_6O_2$	β-Angelica lactone	1550-1850	Sol	Freq	Jones	CJC	37	(1959)	2007
$C_5H_6O_2$	β,γ-Angelica lactone	2-15 μ	-	Freq, Struct	Rasmussen	JACS	71	(1949)	1073
$C_5H_6O_2$	1,3-Cyclopentanedione	2-15 μ	S	Spec, Ident	Boothe	JACS	75	(1953)	1732
$C_5H_6O_2$	5,6-Dihydro-α-pyrone	1550-1850	Sol	Freq	Jones	CJC	37	(1959)	2007
$C_5H_6O_2$	Ethylcarboxyacetylene	-	Sol	H bond	Murshashi	BCSJ	32	(1959)	1001
$C_5H_6O_2$	2-Hydroxy-2-cyclopenten-1-one	-	S	Band freq, Struct	Cordon	JACS	76	(1954)	1643
$C_5H_6O_2$	γ-Methylbutanolide	1550-1850	Sol	Freq	Jones	CJC	37	(1959)	2007
$C_5H_6O_2$	Methyl 2-butanoate	-	Sol	Group freq, I	Allan	JCS	-	(1955)	1874
$C_5H_6O_2$	Penta-2,3-dienoic acid	-	-	I	Jones	JCS	-	(1954)	3201
$C_5H_6O_2$	Penta-3,4-dienoic acid	-	L	I	Jones	JCS	-	(1954)	3201
$C_5H_6O_2$	2-Pentynoic acid	-	Sol	Group freq, I	Allan	JCS	-	(1955)	1874
$C_5H_6O_3$	α-Methyltetronic acid	-	Sol	Band freq	Chopra	JCS	-	(1955)	588

$C_5H_6O_3$	γ-Methyltetronic acid	1600-1850	S,Sol	Spec, Freq, Struct	Duncanson	JCS	-	(1953)	1207
$C_5H_6O_3$	Glutaric anhydride	4-8 μ	Sol	Spec, Struct	Wasserman	JACS	72	(1950)	5787
		1600-1800	Sol	Freq	Hall	JACS	80	(1958)	6428
		1750-1850	Sol	Freq assign	Douben	JOC	24	(1959)	1595
$C_5H_6O_4$	Methyl fumarate	2-15 μ	Sol	Assign	Walton	JACS	79	(1957)	3985
$C_5H_6O_5$	α-Ketoglutaric acid	2-9 μ	Sol	Spec, Freq	Jenecks	ABB	88	(1960)	193
C_5H_6S	2-Methylthiophene	9-15 μ	L	Spec, Ident	Wender	JACS	72	(1950)	4375
		-	-	Ident	Birch	JCS	-	(1951)	3411
		400-3500	L	Group freq	Hidalgo	CPR	239	(1954)	253
		-	-	IR, Mass spectra	Haines	JPC	60	(1956)	549
		238-1538	-	Spec, Thermo, Assign	Pennington	JACS	78	(1956)	2055
		-	-	Thiophenes in virgin petroleum	Thompson	AC	28	(1956)	1384
		800-2000	Sol	I	Katritzky	JCS	-	(1959)	3500
C_5H_6S	3-Methylthiophene	-	-	Ident	Birch	JCS	-	(1951)	3411
		236-3000	-	Assign	McCullough	JACS	75	(1953)	5075
		400-3500	L	Group freq	Hidalgo	CPR	239	(1954)	253
		-	-	IR, Mass spectra	Haines	JPC	60	(1956)	549
$C_5H_7DN_2OS$	3-Ethyl-2-thio-hydantoin-d_1	800-2500	S	Assign	Elmore	JCS	-	(1958)	3489
$C_5H_7DO_4$	Glutaric acid-d_1	-	-	Freq	Bratoz	SA	8	(1956)	249
$C_5H_7D_3O$	3-Pentanone-1,1,1-d_3	1300-3050	Sol	Assign, Ext coefficient, Spec	Nolin	JACS	75	(1953)	5626
C_5H_7BrO	α Bromocyclopentanone	-	Sol	Freq, Config	Corey	JACS	75	(1953)	2301
C_5H_7Cl	2-Chloroisopropyl-acetylene	670-3245	-	Table	Bailey	JOC	20	(1955)	95
$C_5H_7ClFNO_3$	2-Fluoroethyl N-chloro-acetylcarbamate	650-4000	Sol	Spec	Pianka	JCS	-	(1960)	983
C_5H_7ClO	α-Chlorocyclopentanone	-	Sol	Freq, Config	Corey	JACS	75	(1953)	2301
C_5H_7ClO	Ethyl chlorovinyl ketone	5.93 μ	Sol	Quality analysis as impurity	Washburn	AC	29	(1957)	346

$C_5H_7Cl_2NO$	2,3-Dichloro-2-methyl-butyronitrile-N-oxide	600-3000	Sol	Spec	Wiley	JOC	25 (1960) 546
$C_5H_7Cl_3$	1,1,2-Trichloro-3-methyl-1-butene	7.5-14μ	-	Qualit. analysis	Schmerling	JACS	71 (1949) 2015
$C_5H_7F_3O$	Trifluoromethyl isopropyl ketone	650-5000	Sol	Freq	Griffin	SA	16 (1960) 1464
$C_5H_7F_5O$	1-Ethoxy-1,1,3,3,3-pentafluoropropane	-	-	Ind of purity	Haszeldine	JCS	- (1954) 923
$C_5H_7IO_2$	β-Iodopentanoic acid-γ-lactone	-	Sol	Freq, Struct	VanTamelen	JACS	76 (1954) 2315
$C_5H_7IO_2$	δ-Iodopentanoic acid-γ-lactone	-	Sol	Freq, Struct	VanTamelen	JACS	76 (1954) 2315
C_5H_7N	2-Methylpyrrole	3.2-3.5μ	-	$-CH_3$ vibrations	Scrocco	AAN	24 (1958) 429
C_5H_7N	3-Methylpyrrole	3.2-3.5μ	-	$-CH_3$ vibrations	Scrocco	AAN	24 (1958) 429
C_5H_7N	cis-α,β-Dimethylacrylonitrile	1150-1800	-	Spec	Barnes	IEC	15 (1943) 659
C_5H_7N	α-Ethacrylonitrile	1150-1800	-	Spec	Barnes	IEC	15 (1943) 659
		-	-	Ident	Chopin	JACS	76 (1954) 4179
C_5H_7N	cis-β-Ethylacrylonitrile	1150-1800	-	Spec	Barnes	IEC	15 (1943) 659
C_5H_7N	trans-β-Ethylacrylonitrile	1150-1800	-	Spec	Barnes	IEC	15 (1943) 659
C_5H_7N	trans-1-cyano-2-butene	-	-	C=N freq	Kitson	AC	24 (1952) 334
C_5H_7N	3-Methyl-2-butenonitrile	-	-	Analysis	Corey	JACS	75 (1953) 1163
		-	Sol	C=C freq, I, Struct	Felton	JCS	- (1955) 2170
C_5H_7N	3-Methyl-3-butenenitrile	1050-1900	-	Spec	Barnes	IEC	15 (1943) 659
		-	-	C=N freq	Kitson	AC	24 (1952) 334
		-	-	Analysis	Corey	JACS	75 (1953) 1163
C_5H_7N	α-Methylcrotononitrile	-	-	Ident	Chopin	JACS	76 (1954) 4179

C_5H_7N	2-Methylcyclopropane-carbonitrile	2-14.5 μ	L	Spec, Band freq	Wiberley	AC	24 (1952)	623
C_5H_7NO	2-Aminomethylfuran	800-1700	Sol	Freq, Assign	Katritzky	JCS	- (1959)	657
C_5H_7NO	3-Cyano-3-hydroxy-2-methylpropene-1	-	Sol	Group freq, Spec	Potts	SA	15 (1959)	679
C_5H_7NO	2-Hydroxymethyl-3-butenonitrile	-	-	Ident, Single strong C=N and C=C	Price	JACS	74 (1952)	2987
C_5H_7NO	2-Hydroxymethylpyrrole	-	-	Bounded OH	Silverstein	JACS	76 (1954)	4485
		-	-	Ident	Silverstein	JOC	20 (1955)	668
C_5H_7NOS	3,4-Dimethyl-2-thiazolone	2-12 μ	Sol	Spec	Ettlinger	JACS	72 (1950)	4699
C_5H_7NOS	3-Thiocyano-2-butanone	-	-	Freq	Gregory	JACS	74 (1952)	1719
$C_5H_7NO_2$	Ethyl cyanoacetate	2-15 μ	-	Freq, Struct	Rasmussen	JACS	71 (1949)	1073
		-	Sol	C=N freq, I, Ext coeff	Felton	JCS	- (1955)	2170
		-	Sol	C=N freq	Skinner	JCS	- (1955)	487
		2-15 μ	Sol	Spec, Freq	Abramovitch	CJC	36 (1958)	151
		2200-2300	Sol	Struct	Jesson	SA	13 (1958)	217
		-	Sol	Freq, I	Thompson	SA	13 (1958)	236
$C_5H_7NO_2$	Glutarimide	700-4000	S	Spec, Struct	Frank	JACS	71 (1949)	1387
		1600-1800	S, Sol	Freq	Hall	JACS	80 (1958)	6428
$C_5H_7NO_2$	N-Methylsuccinimide	1600-1800	S, Sol	Freq	Hall	JACS	80 (1958)	6428
$C_5H_7NO_2$	N-Vinyl-2-oxazolidone	-	Sol	Spec	Potts	SA	15 (1959)	679
$C_5H_7NO_3$	N-Acetyloxazolidone	1600-1800	Sol	Freq	Hall	JACS	80 (1958)	6428
$C_5H_7NO_3$	3,5-Dimethyl-oxazolid-2,4-dione	650-4000	Sol	Spec	Pianka	JCS	- (1960)	983
$C_5H_7NO_3$	Dimethyl triketone oxime	2700-3900	Sol	Spec, H bond	Buswell	JACS	60 (1938)	2444
$C_5H_7NO_3$	3-Ethyloxazolid-2,4-dione	650-4000	Sol	Spec	Pianka	JCS	- (1960)	983

$C_5H_7NO_3$	N-Hydroxyglutarimide	-	S	Group freq	Ames	JCS	- (1955)	631
$C_5H_7NO_3$	1-Pyrrolidonecarboxylic acid	800-4000	-	Spec	Hutchings	JACS	70 (1948)	10
$C_5H_7NO_6$	Dimethyl nitromalonate	2-16 μ	Sol	Spec, Group freq	Shechter	JACS	76 (1954)	2716
C_5H_7NS	Allylcarbinyl isothiocyanate	-	L	Group freq, Ident	Ettlinger	JACS	77 (1955)	1831
C_5H_7NS	cis-Crotyl isothiocyanate	3.43-13.4 μ	L	Group freq, Band freq	Ettlinger	JACS	77 (1955)	1831
C_5H_7NS	trans-Crotyl isothiocyanate	3.43-13.4 μ	L	Group freq, Band freq	Ettlinger	JACS	77 (1955)	1831
C_5H_7NS	2,2-Dimethylthiazole	600-3600	L	Spec, Freq	Taurins	CJC	35 (1957)	423
C_5H_7NS	2,4-Dimethylthiazole	600-3600	L	Spec, Freq	Taurins	CJC	35 (1957)	423
C_5H_7NS	2,5-Dimethylthiazole	600-3600	L	Spec, Freq	Taurins	CJC	35 (1957)	423
C_5H_7NS	3,4-Dimethylthiazole	600-3600	L	Spec, Freq	Taurins	CJC	35 (1957)	423
C_5H_7NS	4,5-Dimethylthiazole	600-3600	L	Spec, Freq	Taurins	CJC	35 (1957)	423
$C_5H_7N_3$	3-Amino-6-methylpyridazine	3 μ	Sol	Freq, FC	Mason	JCS	- (1958)	3619
$C_5H_7N_3O$	2-Amino-4-hydroxy-6-methylpyrimidine	2-25 μ	S	Spec, Group freq	Short	JCS	- (1952)	168
$C_5H_7N_3O$	6-Amino-4-hydroxy-2-methylpyrimidine	2-15 μ 2-25 μ	S S	Spec, Group freq, Assign Spec, Group freq	Brownlie Short	JCS JCS	- (1950) - (1952)	3062 168
$C_5H_7N_3O$	5-Methylcytosine	3-9.9 μ	-	Struct	Ulbricht	NWS	45 (1958)	416
$C_5H_7N_3OS$	6-Amino-4-hydroxy-2-methylmercaptopyrimidine	2-15 μ 2-25 μ	S S	Spec, Group freq, Assign Spec, Group freq	Brownlie Short	JCS JCS	- (1950) - (1952)	3062 168
$C_5H_7N_3O_2$	5-Hydroxymethylcytosine	- 3-9.9 μ	S -	Ident Struct	Miller Ulbricht	JACS NWS	77 (1955) 45 (1958)	752 416

$C_5H_7N_3O_3 \cdot \frac{1}{2}H_2SO_4$	2-Amino-4,5-dihydroxy-6-hydroxymethyl-pyrimidine hemisulphate	650-3600	S	Freq, Struct	Tanner	SA	8	(1956)	9
$C_5H_7N_3O_4$	O-Diazoacetyl-D-serine	-	-	Spec, Ident	Nicolaides	JACS	76	(1954)	2887
$C_5H_7N_3O_4$	O-Diazoacetyl-L-serine	2-15μ	S	Spec, Band freq	Fusari	JACS	76	(1954)	2878
		-	S	Group freq, Struct	Fusari	JACS	76	(1954)	2881
		2-15μ	S	Spec, Ident	Moore	JACS	76	(1954)	2884
$C_5H_7N_3O_4$	O-Diazoacetyl-DL-serine	2-15μ	S	Spec	Moore	JACS	76	(1954)	2884
$C_5H_7N_5O$	5-Nitroso-4,6-diamino-2-methylpyrimidine	2-15μ	S	Spec, Group freq, Assign	Brownlie	JCS	-	(1950)	3062
$C_5H_7N_7$	5,7-Diamino-3-methyl-S-triazole[4,3-a]-S-triazine	-	-	Group freq	Kaiser	JOC	18	(1953)	1610
$C_5H_7O_2$	Crotonic acid	3-15μ	Sol	Spec	Farmer	SA	8	(1957)	374
C_5H_8	Cyclopentene	-	-	Thermo	Beckett	JACS	70	(1948)	4227
		-	-	Thermo	Epstein	JRNB	42	(1949)	379
		2.2-4.2μ	Sol	Assign, Spec	Plyler	JRNB	43	(1949)	37
		-	-	Band freq	Henbest	JCS	-	(1954)	800
		-	-	Band freq, I	O'Connor	AC	26	(1954)	1726
		3-4μ	L,Sol	C-H stretch freq	Tallent	AC	28	(1956)	953
		650-3100	Sol	Spec	Henbest	JCS	-	(1957)	997
		-	-	NCA, Assign	Sverdlov	OS	6	(1959)	334
C_5H_8	2-Methyl-1,3-butadiene	-	-	Absorption band	Williams	P	7	(1936)	399
		2.5-9μ	S	Spec, Freq, Assign	Williams	JCP	4	(1936)	460
		-	-	Quant mech	Mullikan	JCP	7	(1939)	121
		800-1950	-	Freq, Spec	Barnes	IEC	15	(1943)	659
		2-15μ	G	Spec, Assign	Rasmussen	JCP	15	(1947)	131
		-	-	Freq	Johnston	AC	20	(1948)	805
		-	G	Thermo	Kilpatrick	JRNB	42	(1949)	223
		-	Sol	Freq	Davison	JCS	-	(1953)	2607
		-	-	Struct	Szasz	TFS	49	(1953)	358
		-	-	Ident	Blomquist	JACS	78	(1955)	78
		-	Sol	Group freq, Spec	Potts	SA	15	(1959)	679

		3400-3800	Sol	H bond	West	JACS	81	(1959)	1614
		2 -300m	Sol	Struct	Kuwata	BCSJ	33	(1960)	1091
C_5H_8	3-Methyl-1,2-Butadiene	-	-	Thermo	Kilpatrick	JRNB	42	(1949)	225
		850-2960	-	Table	Bailey	JOC	20	(1955)	95
		-	-	Assign	Sverdlov	OS	5	(1958)	354
C_5H_8	3-Methyl-1-butyne	-	-	Thermo	Wagman	JRNB	35	(1945)	467
C_5H_8	1-Methylcyclobutene	2.5-14.5μ	L,G	Spec, Assign	Cleveland	JCP	15	(1947)	742
C_5H_8	Methylenecyclobutane	2.5-14.5μ	G,L	Spec, Assign	Cleveland	JCP	15	(1947)	742
		650-3700	-	Spec, Ident	Roberts	JACS	71	(1949)	3925
		-	-	Analysis	Pines	JACS	75	(1953)	2315
C_5H_8	1,2-Pentadiene	-	-	Thermo	Kilpatrick	JRNB	42	(1949)	225
		2-15μ	L	Freq	Jacobs	JACS	73	(1951)	1273
		-	-	Group freq	Oroshnik	JACS	75	(1953)	1050
C_5H_8	cis-1,3-Pentadiene	-	-	Spec	Frank	JACS	69	(1947)	2313
		2-15μ	G	Spec, Assign	Rasmussen	JCP	15	(1947)	131
		-	G	Thermo	Kilpatrick	JRNB	42	(1949)	225
		2-15μ	L	Freq	Jacobs	JACS	73	(1951)	1273
		-	Sol	Freq	Davison	JCS	-	(1953)	2607
C_5H_8	trans-1,3-Pentadiene	1200-1800	-	Freq, Spec	Barnes	IEC	15	(1943)	659
		-	-	Spec	Frank	JACS	69	(1947)	2313
		2-15μ	G	Spec, Assign	Rasmussen	JCP	15	(1947)	131
		-	-	Freq	Johnston	AC	20	(1948)	805
		-	G	Thermo	Kilpatrick	JRNB	42	(1949)	225
		2-15μ	L	Freq	Jacobs	JACS	73	(1951)	1273
		-	Sol	Freq	Davison	JCS	-	(1953)	2607
C_5H_8	1,3-Pentadiene	-	Sol	Group freq, Spec	Potts	SA	15	(1959)	679
C_5H_8	1,4-Pentadiene	800-1100	-	Spec, Assign	Thompson	PRS	184	(1945)	3
		-	G	Thermo	Kilpatrick	JRNB	42	(1949)	225
		-	-	Assign	Sverdlov	OS	5	(1958)	354
		-	Sol	Group freq, Spec	Potts	SA	15	(1959)	679
C_5H_8	2,3-Pentadiene	-	-	Thermo	Kilpatrick	JRNB	42	(1949)	225
C_5H_8	1-Pentyne	-	-	Assign	Cleveland	JCP	10	(1942)	172
		-	-	Thermo	Wagman	JRNB	35	(1945)	467

		2-15 μ	L	Spec	Jacobs	JACS	73 (1951) 1273
		-	-	Freq	Ferigle	JCP	20 (1952) 1928
		-	-	Group freq	Oroshnik	JACS	75 (1953) 1050
C_5H_8	2-Pentyne	-	-	Thermo	Wagman	JRNB	35 (1945) 467
		2-15 μ	L	Ident	Jacobs	JACS	73 (1951) 1273
C_5H_8	Spiropentane	2.5-14.5 μ	L,G	Spec, Assign	Cleveland	JCP	15 (1947) 742
		-	-	Struct	Walsh	TFS	45 (1949) 179
		-	-	Assign, Thermo	Scott	JACS	72 (1950) 4664
		-	-	Assign	Guthrie	JACS	74 (1952) 2795
		-	L,Sol	Freq	Slabey	JACS	76 (1954) 3604
C_5H_8	Vinylcyclopropane	2-15 μ	G	Spec	Volkenburgh	JACS	71 (1949) 3595
		2-16 μ	L,Sol	Spec	Slabey	JACS	74 (1952) 4930
		-	L,Sol	Freq	Slabey	JACS	76 (1954) 3604
C_5H_8BrN	5-Bromovaleronitrile	-	-	Freq	Kitson	AC	24 (1952) 334
$C_5H_8BrNO_2$	γ-Bromoallylglycine	2-15 μ	S	Assign	Moreno	SA	16 (1960) 1368
$C_5H_8BrNO_2.HCl$	γ-Bromoallylglycine hydrochloride	2-15 μ	S	Assign	Moreno	SA	16 (1960) 1368
$C_5H_8Br_2O_2$	1,3-Dibromo-2-propyl acetate	-	L	Band freq, I	Edwards	JCS	- (1953) 3427
$C_5H_8Br_2O_2$	2,3-Dibromopropyl acetate	-	L	Band freq, I	Edwards	JCS	- (1953) 3427
		-	-	Ident	delaMare	JCS	- (1954) 3990
$C_5H_8ClF_3$	3-Chloro-3-methyl-1,1,1-trifluorobutane	-	-	Ident	Tarrant	JACS	76 (1954) 2343
$C_5H_8ClNO_2$	γ-Chloroallylglycine	2-15 μ	S	Assign	Moreno	SA	16 (1960) 1368
$C_5H_8ClNO_2.HCl$	γ-Chloroallylglycine hydrochloride	2-15 μ	S	Assign	Moreno	SA	16 (1960) 1368
$C_5H_8ClNO_3$	Ethyl N-chloroacetyl-carbamate	650-4000	Sol	Spec	Pianaka	JCS	- (1960) 983
$C_5H_8ClNO_3$	Methyl N-chloroacetyl -N-methylcarbamate	650-4000	Sol	Spec	Pianaka	JCS	- (1960) 983

$C_5H_8ClN_5$	2,4-Dimethylamino-6-chloro-1,3,5-triazine	2-16 μ	S	Spec, Struct	Padgett	JACS	80 (1958)	803
$C_5H_8Cl_2$	1,1-Dichloro-2,2-dimethylcyclopropane	670-4000	L	Spec	Doering	JACS	76 (1954)	6162
$C_5H_8Cl_2$	1,1-Dichloro-3-methyl-1-butene	8-14 μ	-	Freq	Schmerling	JACS	71 (1949)	701
		7.5-14 μ	-	Quality analysis	Schmerling	JACS	71 (1949)	2015
$C_5H_8Cl_2$	1,4-Dichloro-2-methyl-2-butene	2-15 μ	L,Sol	Group freq	Kitson	AC	25 (1953)	1470
$C_5H_8Cl_2O_2$	2-Chloro-1,2-dimethylethyl chloroformate	-	Sol	Freq, Struct	Hales	JCS	- (1957)	618
$C_5H_8Cl_2O_3$	Dichloroethyl carbonate	-	Sol	Freq, Struct	Hales	JCS	- (1957)	618
$C_5H_8Cl_2F_2O$	1,1-Difluoro-2,2-dichloroethyl n-propyl ether	3-15 μ	G,L	Spec	Park	JACS	73 (1951)	861
$C_5H_8F_3NO$	N-Isopropyltrifluoroacetamide	-	S	Amide freq	Robson	JACS	77 (1955)	498
$C_5H_8F_4O$	1,1,2,2-Tetrafluoroethyl n-propyl ether	2-15 μ	G	Spec	Park	JACS	73 (1951)	1329
$C_5H_8INO_2$	Dioxane-iodine complex	-	Sol	Mol const	Popov	JACS	82 (1960)	1850
C_5H_8NB	Pyridine-borine complex	-	-	Freq assign	Katritzky	JCS	- (1959)	2049
$C_5H_8N_2$	3,5-Dimethylpyrazole	670-3800	Sol	Struct, Spec	Charette	SA	15 (1959)	70
		-	Sol	I, Freq, Struct	Mirone	AC	49 (1959)	59
$C_5H_8N_2O$	2-β-Hydroxyethylimidazole	-	-	Struct	Lawson	JACS	75 (1953)	3398
$C_5H_8N_2O$	1,3,5,6-Tetrahydro-6-keto-3-methylpyradazine	-	Sol	Struct, Band freq	Overend	JCS	- (1950)	3500
$C_5H_8N_2O$	N,N'-Tetramethyleneurea	1600-1800	S,Sol	Freq	Hall	JACS	80 (1958)	6428
$C_5H_8N_2OS$	1,3-Dimethyl-2-thiohydantoin	800-2500	S	Band assign	Elmore	JCS	- (1958)	3489
$C_5H_8N_2OS$	3-Ethyl-2-thiohydantoin	800-2500	S	Assign	Elmore	JCS	- (1958)	3489

$C_5H_8N_2OS$	5-Ethyl-2-thiohydantoin	800-2500	S	Assign	Elmore	JCS	-	(1958)	3489
$C_5H_8N_2O_2$	N-Acetyl-2-imidazolidone	1600-1800	S	Freq	Hall	JACS	80	(1958)	6428
$C_5H_8N_2O_2$	5,6-Dihydro-5-methyl-2,4(1,3)-pyrimidinedione	2-16μ	-	Spec	Clark	APS	6	(1952)	14
		-	S	C=O freq	Murray	JACS	76	(1954)	3665
		2-12μ	Sol	Spec, Group freq, Assign	Lacher	JPC	59	(1955)	615
$C_5H_8N_2O_2$	5,6-Dihydro-6-methyl-2,4(1,3)-pyrimidinedione	2-16μ	-	Spec	Clark	APS	6	(1952)	14
$C_5H_8N_2O_2S$	2-Amino-5-(1-hydroxyethyl)-2-thiazolin-4-one	3-9μ	-	Assigned struct	Durden	JACS	81	(1959)	1943
$C_5H_8N_2O_2S$	N-Carbamyliminoöxathiolane	2.86-14.3μ	-	Band freq, I, Ident	Price	JACS	75	(1953)	2396
$C_5H_8N_2O_4$	Succinylurea	-	S	Freq	Murray	JACS	76	(1954)	3665
$C_5H_8N_4$	3-Amino-5,6-dimethyl-1,2,4-triazine	3μ	Sol	Freq, FC	Mason	JCS	-	(1958)	3619
$C_5H_8N_4$	4,6-Diamino-2-methylpyrimidine	2-15μ	S	Spec, Freq, Assign	Brownlie	JCS	-	(1950)	3062
$C_5H_8N_4O$	2-Amino-4-methyl-6-carbamylpyrimidine	2-25μ	S	Spec, Group freq	Short	JCS	-	(1952)	168
$C_5H_8N_4O_2$	Carbethoxydicyandiamide	-	S	Ident	Kaiser	JOC	17	(1952)	185
$C_5H_8N_4S$	4,6-Diamino-2-methylmercaptopyrimidine	2-15μ	S	Spec, Freq, Assign	Brownlie	JCS	-	(1950)	3062
C_5H_8O	Cyclopentanone	1772	G	Freq	Hartwell	JCS	-	(1948)	1436
		1650-1800	Sol	C=O ext coefficient	Cross	TFS	47	(1951)	354
		-	Sol	C=O freq, Config.	Corey	JACS	75	(1953)	2301
		-	Sol	Freq	Cram	JACS	76	(1954)	2753
		-	-	Microwave	Erlandsson	JCP	22	(1954)	563
		-	-	C=O freq	Snyder	JACS	76	(1954)	4601
		-	Sol	Freq	Bartlett	JACS	77	(1955)	2806
		-	-	Microwave	Burkhatter	JCP	23	(1955)	1172
		-	Sol	C=O freq	Schubert	JACS	77	(1955)	4172

		1600-1800	S	Freq	Hall	JACS	80 (1958)	6428
		-	Sol	I, Freq	Thompson	SA	13 (1958)	236
		600-3200	Sol	Solvent dependency of Fermi resonance coupling. Doublet carbonyl stretching band.	Angell	SA	15 (1959)	926
		-	G	Mol consts	Kokeritz	AF	16 (1959)	197
		-	Sol	H bond	Tamres	JACS	81 (1959)	2100
		600-4000	Sol	Carbonyl doublet effect of solvent	Allen	JCS	- (1960)	1909
		-	Sol	Freq	Burer	HCA	43 (1960)	1487
C_5H_8O	Acetylcyclopropane	2-14.5μ	L	Spec, Band freq	Wiberley	AC	24 (1952)	623
		5-7μ	L	Carbonyl band; Rate study	Friess	JACS	74 (1952)	1302
		-	-	Ref. in react	Hammond	JACS	76 (1954)	4081
		-	L,Sol	Band freq	Slabey	JACS	76 (1954)	3604
		3-11μ	L,S	Spec, Struct	Allen	JOC	22 (1957)	1291
C_5H_8O	4,5-Dihydro-2-methylfuran	-	L	Band freq, I	Meakins	JCS	- (1953)	4170
		-	-	Group freq	Barr	JCS	- (1954)	3766
C_5H_8O	4,5-Dihydropyran	650-3150	L	Band freq, I	Meakins	JCS	- (1953)	4170
		-	-	Group freq, Struct	Hurd	JACS	77 (1955)	2793
C_5H_8O	1,1-Dimethylpropargyl alcohol	3100-3400	L	Ident	Filler	CIL	- (1957)	1322
		300-3800	S,Sol	Freq	Nyquist	SA	16 (1960)	417
C_5H_8O	1,2-Epoxycyclopentane	2800-3100	Sol	C-H stretching band	Henbest	JCS	- (1957)	1459
C_5H_8O	Ethyl vinyl ketone	-	Sol	C=C and CH freq, Absorption	Davison	JCS	- (1953)	2607
C_5H_8O	Methyl isopropenyl ketone	1050-1800	-	Spec	Barnes	IEC	15 (1943)	
		-	Sol	Freq, Absorption	Davison	JCS	- (1953)	2607
C_5H_8O	cis-Methyl propenyl ketone	-	-	Band freq	Pitts	JACS	76 (1954)	4815
C_5H_8O	trans-Methyl propenyl ketone	-	-	Ident	Pitts	JACS	76 (1954)	4815
C_5H_8O	Tetrahydro-2-methylene-furan	650-3150	L	Band freq, I	Meakins	JCS	- (1953)	4170
C_5H_8O	Tigaldehyde	-	Sol	Group and band freq	Pinchas	AC	27 (1955)	2

C_5H_8OS	3-Ketothiacyclohexane	-	-	Band freq	Leonard	JACS	74	(1952)	917
$C_5H_8O_2$	1-Acetoxy-1-methyl-ethylene	-	Sol	Group freq, Spec	Potts	SA	15	(1959)	679
$C_5H_8O_2$	Allyl acetate	1050-1800	-	Spec, Freq	Barnes	IEC	15	(1943)	655
		1.626-2.105μ	Sol	Ext coefficient	Goddu	AC	29	(1957)	1790
$C_5H_8O_2$	Angelic acid	-	-	C=C freq	Adams	JACS	75	(1953)	4631
		600-1900	Sol	Spec	Cason	JOC	19	(1954)	1947
		3.41-11.68μ	Sol	Band freq, I	Dreiding	JACS	76	(1954)	1902
$C_5H_8O_2$	Cyclopropyl acetate	2-16μ	Sol	Spec	Roberts	JACS	73	(1951)	5034
$C_5H_8O_2$	2,6-Dioxaspiro (3,3) heptane	400-3000	Sol	IR, Spec, Struct, Assign	Sirkar	JCP	23	(1955)	1684
$C_5H_8O_2$	Ethyl acrylate	850-1950	-	Spec	Barnes	IEC	15	(1943)	659
		-	Sol	Freq	Davison	JCS	-	(1953)	2607
		1.620-2.103μ	Sol	Ext coefficient	Goddu	AC	29	(1957)	1790
		200-3200	-	Spec, Assign	Hidalgo	ARS	52B	(1956)	627
		600-3000	-	Freq	Gillis	JACS	80	(1958)	2999
		-	Sol	Freq, I	Thompson	SA	13	(1958)	236
		-	-	Assign, Freq	Katritzky	SA	16	(1960)	964
		800-1500	Sol	Assign	Katritzky	SA	16	(1960)	954
$C_5H_8O_2$	2-Hydroxycyclopentanone	2-12μ	Sol	Spec	Sheehan	JACS	72	(1950)	3376
$C_5H_8O_2$	cis-Methyl 2-butenoate	-	Sol	Group freq, I	Allan	JCS	-	(1955)	1874
$C_5H_8O_2$	trans-Methyl 2-butenoate	-	Sol	Group freq, I	Allan	JCS	-	(1955)	1874
$C_5H_8O_2$	Methyl 3-butenoate	200-3200	-	Spec, Assign	Hidalgo	ARS	52B	(1956)	627
$C_5H_8O_2$	3-Methyl-2-butenoic acid	0.9-3μ	Sol	Spec	Holman	AC	28	(1956)	1533
$C_5H_8O_2$	Methyl crotonate	1717-1729	Sol	Freq, I	Barrow	JCP	21	(1953)	2008
		-	Sol	I	Hirota	BCSJ	27	(1954)	295
		-	-	Assign	Katritzky	SA	16	(1960)	954
		800-1500	Sol	Assign	Katritzky	SA	16	(1960)	964
$C_5H_8O_2$	cis-Methyl crotonate	700-1800	Sol	Freq	Dalton	JCS	-	(1960)	3681

$C_5H_8O_2$	trans-Methyl crotonate	700-1800	Sol	Freq	Dalton	JCS	-	(1960)	3681
$C_5H_8O_2$	Methyl methacrylate	1000-1800	-	Freq, Spec	Barnes	IEC	15	(1943)	659
		500-3100	-	Spec	Thompson	TFS	41	(1945)	75
		-	-	Spec	Barnes	AC	20	(1948)	402
		1740	Sol	Freq	Hampton	AC	21	(1949)	914
		2-15μ	-	Freq, Struct	Rasmussen	JACS	71	(1949)	1073
		2-15μ	L,Sol	Group freq	Kitson	AC	25	(1953)	1470
		-	L,S	Group freq	Loshack	JACS	75	(1953)	3544
		10-15μ	L	Spec	Patterson	AC	26	(1953)	823
		1.620μ	Sol	Ext coefficient	Goddu	AC	29	(1957)	1790
		2-15μ	L	Assign, Spec	Walton	JACS	79	(1957)	3985
		-	Sol	Freq, I	Thompson	SA	13	(1958)	236
		-	Sol	Band freq	Baker	JACS	82	(1960)	1923
		800-1500	Sol	Assign	Katritzky	SA	16	(1960)	954
		-	-	Assign	Katritzky	SA	16	(1960)	964
$C_5H_8O_2$	1,4-Pentadiene dioxide	2-15μ	L,Sol	Spec, Group freq	Patterson	AC	26	(1954)	823
$C_5H_8O_2$	2,4-Pentadione	0.7-2.5μ	L	C=O study	Ellis	JACS	51	(1929)	1384
		2.8-3.7μ	L	Assign, Spec	Bawn	JCS	-	(1932)	1189
		2400-4000	-	Spec, H bond	Barnes	JCP	4	(1936)	722
		5.5-6.5μ	L	Spec, H bond	Gordy	JCP	8	(1940)	516
		-	-	Freq, Absorption	Rasmussen	JACS	71	(1949)	1008
		-	G,Sol	Taut	Powling	JACS	73	(1951)	4353
		-	S	Freq, H bond	Bellamy	JCS	-	(1952)	4653
		1200-2000	Sol	Freq	Bender	JACS	75	(1953)	6304
		-	-	Freq, H bond	Smith	JACS	75	(1953)	1134
		850-4000	Sol	Spec	Park	JACS	75	(1953)	4753
		-	Sol	Freq	Bellamy	JCS	-	(1954)	4487
		-	Sol	Group freq	Fetizon	CPR	238	(1954)	2542
		-	-	C=O freq	Davis	JACS	77	(1955)	3284
		1600-1700	L	Keto-enol ratio	Yoshino	JCP	23	(1955)	1564
$C_5H_8O_2$	2-Pentenoic acid	0.9-3μ	Sol	Spec	Holman	AC	28	(1956)	1533
$C_5H_8O_2$	Isopropenyl acetate	-	Sol	Struct	Vanderhaeghe	JACS	74	(1952)	2810
		-	Sol	Freq, Absorption	Davison	JCS	-	(1953)	2607
		850-4000	L	Spec	Smith	JACS	75	(1953)	1134
		2-9μ	Sol	Spec, Freq	Jencks	ABB	88	(1960)	193
$C_5H_8O_2$	Tetrahydrofurfural-dehyde	-	-	Band freq, Struct	Bremner	JCS	-	(1949)	27
		-	-	Freq	Pinchas	AC	27	(1955)	2
$C_5H_8O_2$	Tiglic acid	-	Sol	Freq	Goulden	SA	6	(1954)	129

$C_5H_8O_2$	Tiglic acid (trans)	-	-	C=C freq, Config	Adams	JACS	75	(1953)	4631
		600-1900	Sol	Spec, Iso	Cason	JOC	19	(1954)	1947
		3.8-11.55μ	Sol	Freq, I	Dreiding	JACS	76	(1954)	1902
$C_5H_8O_2$	γ-Valerolactone	2-15μ	-	Freq, Struct	Rasmussen	JACS	71	(1949)	1073
		-	-	Freq	Radell	JACS	76	(1954)	4488
$C_5H_8O_2$	δ-Valerolactone	2-15μ	-	Freq, Struct	Rasmussen	JACS	71	(1949)	1073
		5.2-6.0μ	Sol	Spec, H bond	Searles	JACS	75	(1953)	71
		1600-1800	S	Freq	Hall	JACS	80	(1958)	6428
		-	Sol	Freq	Jones	CJC	37	(1959)	2007
$C_5H_8O_2$	Vinylpropionate	-	Sol	Freq, Spec	Potts	SA	15	(1959)	679
$C_5H_8O_2S_2$	Carboxymethyldithio propionate	400-4000	S	Spec, Freq	Bak	ACS	12	(1958)	1451
$C_5H_8O_3$	Acetic propionic anhydride	5-6.4μ	-	Reaction rate study	Barr	JCP	9	(1936)	90
$C_5H_8O_3$	Dimethylpyruvic acid	660-4000	-	Spec, Taut	Josien	BSCF	-	(1957)	1148
$C_5H_8O_3$	Ethyl pyruvate	-	-	Band freq	King	JACS	77	(1955)	2217
$C_5H_8O_3$	2-Hydroperoxy-2-methyl -2,5-dihydrofuran	-	-	Group freq	Milas	JACS	76	(1954)	2322
$C_5H_8O_3$	Methyl glycolate vinyl ether	-	-	Band freq	Adelman	JACS	75	(1953)	2678
$C_5H_8O_3$	Methyl α-(hydroxymethyl)-acrylate	-	-	C=O, CH_2 = C freq	Ferris	JOC	20	(1955)	780
$C_5H_8O_4$	Dimethylmalonic acid	-	S	Band freq	Duncanson	JCS	-	(1952)	1753
$C_5H_8O_4$	Ethyl malonate	500-1750	L	Assign	Thompson	JCS	-	(1945)	640
$C_5H_8O_4$	Glutaric acid	500-1500	S	Spec, Assign	Hadzi	PRS	216	(1953)	247
		670-2000	L,S	Spec	Corish	JCS	-	(1955)	2431
		-	-	Freq	Bratoz	SA	8	(1956)	249
		680-2500	-	Spec	Hadzi	NC	11	(1959)	715
		-	-	Freq, Assign	Ryazanova	IANS	23	(1959)	143

$C_5H_8O_4$	Glutaric acid (α and β)	670-3500	S,L	Freq, Struct	Corish	JCS	-	(1955)	2431
$C_5H_8O_4$	D-Methylsuccinic acid	-	S	Group freq	Duncanson	JCS	-	(1952)	1753
		-	-	Ident	Grove	JCS	-	(1952)	3967
		-	-	Freq, Ident	James	JCS	-	(1955)	637
$C_5H_8O_4$	DL-Methylsuccinic acid	750-1750	S	Spec, Freq	Duncanson	JCS	-	(1952)	1753
		800-1500	S	Spec	Buckley	JCS	-	(1953)	1325
		-	-	Freq	James	JCS	-	(1955)	637
$C_5H_8O_4S$	Thioitamalic acid	-	-	Ref compounds	Kuuch	JOC	19	(1954)	845
$C_5H_8O_5$	Arabino-γ-lactone	8-15μ	S	Spec	Kuber	AC	22	(1950)	276
$C_5H_8O_5$	L-Arabono-γ-lactone	1700-1800	S	Freq	Barker	CIL	-	(1958)	658
$C_5H_8O_5$	Lyxono-γ-lactone	1700-1800	S	Freq	Barker	CIL	-	(1958)	658
$C_5H_8O_5$	D-Ribono-γ-lactone	1700-1800	S	Freq	Barker	CIL	-	(1958)	658
C_5H_9D	Cyclopentane-d_1	400-3000	L,G	Spec, Assign, Thermo	Miller	JCP	18	(1950)	1519
$C_5H_9DN_2O_2$	Acetylglycine methylamide-N-d_1	400-1800	S	Assign	Moriwaki	JACS	81	(1959)	5914
$C_5H_9DO_2$	2,2-Dimethylpropanoic acid-O-d_1	700-1500	S	Spec, Assign	Hadzi	PRS	216	(1953)	247
$C_5H_9DO_2$	n-Pentanoic acid-O-d_1	500-1500	L	Spec, Assign	Hadzi	PRS	216	(1953)	247
C_5H_9Br	Bromocyclopentane	2-16μ	-	Spec, Struct	Roberts	JACS	73	(1951)	5030
C_5H_9Cl	Chlorocyclopentane	2-16μ	-	Spec, Struct	Roberts	JACS	73	(1951)	5030
C_5H_9Cl	Vinylchloropropane	15-35μ	S	Spec, Struct	Bentley	SA	15	(1959)	165
C_5H_9ClO	Chloromethyl isopropyl ketone	-	L,G,S, Sol	Freq	Bellamy	JCS	-	(1957)	4294
$C_5H_9ClO_2$	n-Butyl chloroformate	-	Sol	Freq, I	Thompson	SA	13	(1958)	236
$C_5H_9ClO_2$	α-Chloroethyl propionate	-	Sol	I	Gutjahr	SA	16	(1960)	1209
$C_5H_9ClO_2$	β-Chloroethyl propionate	-	Sol	I	Gutjahr	SA	16	(1960)	1209

$C_5H_9ClO_2$	DL-α-Chlorovaleric acid	-	L, Sol	Spec, Assign	Takenishi	NKZ	81	(1960)	1382
$C_5H_9ClO_2$	Isobutyl chloroformate	-	Sol	Freq, I	Thompson	SA	13	(1958)	236
		-	-	Assign	Katritzky	SA	16	(1960)	964
		800-1500	Sol	Assign	Katritzky	SA	16	(1960)	954
$C_5H_9ClO_3$	s-Butyl chlorocarbonate	-	S	Freq	Ory	SA	16	(1960)	1488
$C_5H_9ClO_3$	n-Butyl chlorocarbonate	-	S	Freq	Ory	SA	16	(1960)	1488
$C_5H_9ClO_3$	Isobutyl chlorocarbonate	-	S	Freq	Ory	SA	16	(1960)	1488
$C_5H_9ClO_3$	Methyl α-chloro-β-methoxy propionate	800-1800	Sol	Spec	Lee	JAPC	3	(1953)	481
$C_5H_9ClO_3$	Methyl β-chloro-α-methoxypropionate	800-1800	Sol	Spec	Lee	JAPC	3	(1953)	481
$C_5H_9Cl_3$	2-Chloromethyl-1,3-dichloro-2-methylpropane	2-15μ	-	Spec, Ident	Urry	JACS	74	(1952)	5822
$C_5H_9Cl_3NB$	n-Butyl cyanide-boron trichloride complex	-	Sol	Freq	Gerrard	JCS	-	(1960)	2182
C_5H_9N	N-Allylideneethylamine	2.5-15μ	L	Spec, Band freq	Pollard	JACS	73	(1951)	2925
		-	-	Band freq	Smith	JACS	75	(1953)	3316
C_5H_9N	t-Butyl cyanide	4.5-8.1μ	-	Spec, Freq	McBride	JACS	74	(1952)	5247
		-	L	Analysis	McBee	JACS	77	(1955)	917
		-	G	Spec, Struct	Sparstad	JCP	27	(1957)	317
		-	G	Microwave	Weil	ZE	61	(1957)	938
C_5H_9N	n-Butyl isocyanide	1.0-6.5μ	L	Spec	Gordy	JCP	4	(1936)	85
C_5H_9N	t-Butyl isocyanide	4.7-6.3μ	Sol	Spec, Freq	McBride	JACS	74	(1952)	5247
		-	G	Struct, Spec, Mol consts	Bak	JMS	2	(1958)	54
C_5H_9N	2-Methyl-Δ^1 or Δ^2-pyrroline	2-11μ	Sol	Spec, Struct	Evans	JACS	73	(1951)	5230
		6.05μ	Sol	C=N band	Meyers	JOC	24	(1959)	1233
C_5H_9N	Valeronitrile	1-12μ	L	Spec	Bell	JACS	57	(1935)	1023

		1.0-6.5 μ	L	Spec	Gordy	JCP	4	(1936)	85
		720-750	L	Freq	Wiberley	AC	22	(1950)	841
		-	-	C=N freq	Kitson	AC	24	(1952)	334
		-	Sol	Freq	Gerrard	JCS —	-	(1960)	2182
C_5H_9NO	4-Amino-3-pentene-2-one	650-4000	L,S	Spec, Assign	Holtzelaw	JACS	80	(1958)	1100
		3-6 μ	S,Sol	H bond	Weinstein	JOC	23	(1958)	1618
C_5H_9NO	Cyclopentanoxime	1650-1800	Sol	C=O ext coefficient	Cross	TFS	47	(1951)	354
C_5H_9NO	3-Methyl-2-butenamide	-	-	Analysis	Corey	JACS	75	(1953)	1163
C_5H_9NO	3-Methyl-3-butenamide	-	-	Analysis	Corey	JACS	75	(1953)	1163
C_5H_9NO	N-Methylpyrrolidinone	1600-1800	L,Sol	Freq	Hall	JACS	80	(1958)	6428
C_5H_9NO	1-Methyl-2-pyrrolidone	650-3480	L	Band freq, Absorption	Edwards	CJC	32	(1954)	785
C_5H_9NO	2-Piperidone	600-3600	L	Absorption	Edwards	CJC	32	(1954)	683
		1400-3650	S,Sol	Freq, Taut	Mason	JCS	-	(1957)	4874
		1600-1800	S	Freq	Hall	JACS	80	(1958)	6428
C_5H_9NO	Valerolactam	2.6-3.6 μ	S,L	Molecular association	Tsuboi	BCSJ	22	(1949)	215
		-	L	Config	Tsuboi	BCSJ	22	(1949)	255
C_5H_9NOS	5,5-Dimethyl-2-thio-öxazolidone	2-12 μ	S,L	Spec	Ettlinger	JACS	72	(1950)	4699
C_5H_9NOS	5-Ethyl-2-thioöxazolidone	-	-	Group freq	Clapp	JACS	75	(1953)	1490
$C_5H_9NO_2$	Allylglycine	2-15 μ	S	Assign	Moreno	SA	16	(1960)	1368
$C_5H_9NO_2 \cdot HCl$	Allylglycine hydrochloride	2-15 μ	S	Assign	Moreno	SA	16	(1960)	1368
$C_5H_9NO_2$	Cyclopentyl nitrite	2-25 μ	G	Rot iso	Tarte	JCP	20	(1952)	1570
$C_5H_9NO_2$	N-Methyldiacetamide	1600-1800	L,Sol	Freq	Hall	JACS	80	(1958)	6428
$C_5H_9NO_2$	Proline	-	-	Band freq	Buswell	JPC	44	(1940)	1126
$C_5H_9NO_2$	L-Proline	2.4-4.1 μ	S	Spec, Assign, Quant anal	Buswell	JPC	46	(1942)	575
		600-400	S	Spec	Heacock	CJC	34	(1956)	1782
		600-4000	S	Ident	Epp	AC	29	(1957)	1283
		6-11 μ	Sol	Spect	Parker	N	187	(1960)	386

$C_5H_9NO_2.HCl$	L-Proline hydrochloride	600-4000	S	Spec	Heacock	CJC	34	(1956)	1782
$C_5H_9NO_3$	Acetyl-DL-alanine-N-methylamide	2800-3500	Sol	Config	Tsuboi	JACS	81	(1959)	1406
$C_5H_9NO_3$	Ethyl N-acetylcarbamate	650-4000	Sol	Spec	Pianka	JCS	-	(1960)	893
$C_5H_9NO_3$	Hydroxy-L-proline	1580-1640	-	Freq	Margoshes	JCP	22	(1954)	381
		-	S	H bond	Pimental	JCP	24	(1956)	639
		600-4000	S	Ident	Epp	AC	29	(1957)	1283
		6-11 μ	Sol	Spec	Parker	N	187	(1960)	386
$C_5H_9NO_3$	N-Methylsuccinamic acid	5-8 μ	Sol	Spec, Freq, Assign	Ehrlich	JACS	76	(1954)	5268
$C_5H_9NO_3S$	Acetylcysteine	2-15 μ	S	Spec	Fuson	JACS	74	(1952)	1
$C_5H_9NO_4$	O-Acetyl-L-serine	-	S	Ident	Fusari	JACS	76	(1954)	2881
$C_5H_9NO_4$	L-Glutamic acid	600-4000	S	Ident	Epp	AC	29	(1957)	1283
		6-11 μ	Sol	Spec	Parker	N	187	(1960)	386
		1538-909	Sol	Spec	Parker	SA	16	(1960)	910
$C_5H_9NO_4$	DL-Glutamic acid	15.38-909	Sol	Spec	Parker	SA	16	(1960)	910
$C_5H_9N^{15}O_4$	DL-Glutamic acid	-	-	Spec, Freq	Takenishi	NKZ	81	(1960)	1380
$C_5H_9NO_4$	Ethyl α-nitropropionate	-	-	Freq	Emmons	JACS	77	(1955)	4391
$C_5H_9NO_4$	4-Hydroxy-5-nitro-2-pentanone	-	-	Group, Band freq	Leonard	JOC	17	(1952)	1262
$C_5H_9NO_5$	Isopropyl glycolate nitrate	-	L	Group freq	Kumler	JACS	75	(1953)	4346
C_5H_9NS	n-Butyl isothiocyanate	600-2200	-	Freq, NCA	Lieber	SA	13	(1959)	296
C_5H_9NS	n-Butyl thiocyanate	600-2200	-	Freq	Lieber	SA	13	(1959)	296
C_5H_9NS	2-Ethyl-2-thiazoline	-	-	Spec, Freq	Roggers	CPR	249	(1959)	2529
$C_5H_9NS_2$	4,4-Dimethyl-2-thiothiazolidone	-	Sol	Spec, Freq, Ident	Clapp	JACS	75	(1953)	1490

$C_5H_9NS_2$	5,5-Dimethyl-2-thiothiazolidone	2-12 μ	Sol	Spec	Ettlinger	JACS	72	(1950)	4699
$C_5H_9NS_2$	4-Ethyl-2-thiothiazolidone	-	-	Group freq	Clapp	JACS	75	(1953)	1490
$C_5H_9N_3O_9$	Metriol trinitrate	2-15 μ	Sol	Spec, Group freq	Pristera	AC	25	(1953)	844
$C_5H_9O_2$	Ethyl propionate	-	Sol	Struct	Felton	JCS	-	(1955)	2170
C_5H_{10}	Cyclopentane	-	-	Freq	Kellner	TFS	41	(1945)	217
		-	-	Thermo	Kilpatrick	JACS	69	(1947)	2483
		2-15 μ	L	Spec	Plyler	JRNB	38	(1947)	211
		16-23 μ	G,L	Spec	Plyler	JOSA	37	(1947)	746
		8000-9000	Sol	Analysis for CH_3 and CH_2 groups	Hibbard	AC	21	(1949)	486
		-	G	Analysis	Bell	AC	22	(1950)	1005
		400-3000	L,G	Spec, Assign, Thermo	Miller	JCP	18	(1950)	1519
		-	-	Functional group analysis	Hastings	AC	24	(1952)	612
		-	-	Analysis	Jones	JCS	-	(1952)	3261
		3.4-14.7 μ	Sol	Struct	Francis	AC	25	(1953)	1466
		-	-	Assign	Barker	JCS	-	(1954)	4550
		-	-	Band freq, I	O'Connor	AC	26	(1954)	1726
		-	-	Ident	McBee	JACS	77	(1955)	389
		3-4 μ	L,Sol	Freq	Tallent	AC	28	(1956)	953
		-	-	Stretching vibrations	Benson	JCP	27	(1957)	1164
		-	-	NCA, FC, Assign	Curnutte	JMS	1	(1957)	239
		15-35 μ	S	Spec, Struct	Bentley	SA	15	(1959)	165
		-	-	NCA	Lebeder	OS	6	(1959)	154
C_5H_{10}	1,1-Dimethylcyclopropane	5-14.5 μ	G	Spec, Assign	Cleveland	JCP	15	(1947)	742
		2-15 μ	G,L	Spec	Derfer	JACS	71	(1949)	2482
C_5H_{10}	Ethylcyclopropane	2-15 μ	G	Purity	Derfer	JACS	71	(1949)	2482
		-	-	Ident	Cragson	JOC	20	(1955)	275
C_5H_{10}	2-Methyl-1-butene	800-1100	-	Spec, Assign	Thompson	PRS	184	(1945)	3
		-	-	Analysis, Ext coefficient	Lee	IEC	18	(1946)	659
		-	-	Analysis	Anderson	AC	20	(1948)	998
		-	G	Analysis	Thornton	AC	20	(1948)	9
		700-1500	-	IR, Spec, Assign, Freq	Sheppard	PRS	196	(1949)	195
		3400-3800	Sol	H bond	West	JACS	81	(1959)	1614
C_5H_{10}	2-Methyl-2-butene	-	-	Thermo	Kassel	JCP	4	(1936)	435
		2.6-3.8 μ	Sol	Spec, Assign	Fox	PRS	175	(1940)	208
		500-2000	-	Spec	Thompson	PRS	184	(1945)	3

		2-15 μ	G	Spec, Assign	Rasmussen	JCP	15	(1947)	120
		-	G	Analysis	Thornton	AC	20	(1948)	9
		-	-	Assign, Thermo	Scott	JACS	71	(1949)	2767
		700-1500	-	IR, Spec, Assign	Sheppard	PRS	196	(1949)	195
		-	L	Ext coeff	Barnard	JCS	-	(1950)	915
		-	G	Band freq	Levy	JACS	75	(1953)	1253
		-	Sol	Analysis	Saier	AC	26	(1954)	1258
		-	-	Freq	Brown	TFS	51	(1955)	1611
		3400-3800	Sol	H bond	West	JACS	81	(1959)	1614
C_5H_{10}	3-Methyl-1-butene	800-1100	-	Spec, Assign	Thompson	PRS	184	(1945)	3
		-	-	Analysis	Thornton	AC	20	(1948)	9
		-	-	Ident	Bailey	JACS	77	(1955)	75
		-	-	Freq	Bellamy	JCS	-	(1958)	2463
		-	Sol	Group freq	Potts	SA	15	(1959)	679
C_5H_{10}	Methylcyclobutane	2-15 μ	G	Purity	Derfer	JACS	71	(1949)	2482
		-	-	Ident	Pines	JACS	75	(1953)	2315
C_5H_{10}	asym-Methylethylethylene	-	G	Band freq	Levy	JACS	75	(1953)	1253
C_5H_{10}	1-Pentene	800-1100	-	Spec, Assign	Thompson	PRS	184	(1945)	3
		-	-	Optical density vs conc	Johnston	AC	20	(1948)	805
		-	-	Analysis	Partington	JCS	-	(1948)	226
		-	G	Analysis	Thornton	AC	20	(1948)	9
		-	-	Analysis	Milsom	AC	21	(1949)	547
		700-1500	-	IR, Spec, Assign	Sheppard	PRS	196	(1949)	195
		-	L	Freq, Iso	Morton	JOC	20	(1955)	839
		-	-	Freq	Bellamy	JCS	-	(1958)	2463
		15-35 μ	S	Spec, Struct	Bentley	SA	15	(1959)	205
		700-3500	L	Freq, Spec	Comeford	JMS	5	(1960)	474
		-	S	Band assign	Harrah	JCP	33	(1960)	298
C_5H_{10}	2-Pentene	3400-3800	Sol	H bond	West	JACS	81	(1959)	1614
C_5H_{10}	cis-2-Pentene	800-1100	-	Spec, Assign	Thompson	PRS	184	(1945)	3
		-	G	Analysis	Thornton	AC	20	(1948)	9
		9-15 μ	G	Spec	Fred	AC	21	(1949)	900
		-	-	Analysis	Hampton	AC	21	(1949)	923
		-	-	Analysis	Oakes	JCS	-	(1949)	2929
		15-35 μ	S	Spec, Struct	Bentley	SA	15	(1959)	165
C_5H_{10}	trans-2-Pentene	-	-	Optical density vs conc	Johnston	AC	20	(1948)	805

		-	G	Analysis	Thornton	AC	20	(1948)	9
		9-15 μ	G	Spec	Fred	AC	21	(1949)	900
		-	-	Analysis	Hempton	AC	21	(1949)	923
		700-1500	-	Spec, IR, Assign, Freq	Sheppard	PRS	196	(1949)	195
		-	L	Group freq	Morton	JOC	20	(1955)	839
		-	-	Freq	Bellamy	JCS	-	(1958)	2463
		15-35 μ	S	Spec, Struct	Bentley	SA	15	(1959)	165
$C_5H_{10}DN$	Piperidine-N-d_1	-	L	N-D strong, N-H weak	Hawthorne	JACS	76	(1954)	6358
$C_5H_{10}DNO_2.DCl$	DL-Norvaline-d_1-hydrochloride-d_1	400-3600	-	Spec, Assign	Takenishi	NKZ	81	(1960)	1496
$C_5H_{10}Br_2$	1,5-Dibromopentane	450-1500	S,L	Spec, Assign, Iso	Brown	PRS	231	(1955)	555
$C_5H_{10}Cl_2$	1,5-Dichloropentane	450-1500	S,L	Spec, Assign, Iso	Brown	PRS	231	(1955)	555
$C_5H_{10}Cl_2N_4O_2$	N-Methylene-bis-(β-chloroethyldiimide) dioxide	600-1600	S	Freq	George	CJC	37	(1959)	679
$C_5H_{10}Cl_2Si$	Cyclopentamethylene-dichlorosilane	2-35 μ	L	Assign, Spec	Oshesky	JACS	79	(1957)	2057
$C_5H_{10}Cl_3O_2P$	Diethyl trichloromethane-phosphonate	2-21 μ	L	Spec, Struct	Daasch	AC	23	(1951)	853
$C_5H_{10}F_3O_3P$	Diethyl trifluoromethyl-phosphonate	740-1500	L	Assign	McIvor	CJC	37	(1959)	869
$C_5H_{10}I_2$	1,5-Diiodopentane	450-1500	L,S	Spec, Assign, Iso	Brown	PRS	231	(1955)	555
$C_5H_{10}NO_3P$	Diethyl cyanophosphonate	-	-	P=O freq	Bell	JACS	76	(1954)	5185
$C_5H_{10}N_2$	Cyclopentanone hydrazone	-	-	Ident	Doering	JACS	75	(1953)	5955
$C_5H_{10}N_2$	Diethylcarbodiimide	2300-2000	Sol	I	Meakins	JCS	-	(1957)	993
$C_5H_{10}N_2$	Diethylcyanamide	1050-1550	-	Spec	Barnes	IEC	15	(1943)	659
		2200-2300	Sol,G	Freq, Struct	Jesson	SA	13	(1958)	217
$C_5H_{10}N_2$	3,3-Dimethylamino-propionitrile	2200-2300	Sol,G	Freq, Struct	Jesson	SA	13	(1958)	217
$C_5H_{10}N_2$	2-Methyl-3,4,5,6-tetra-hydropyrimidine	-	-	C=N freq	Peerman	JACS	76	(1954)	6085

$C_5H_{10}N_2O$	N-Nitrosopiperidine	-	Sol	Freq	Emmons	JOC	19	(1954)	1472
		5.63-9.14μ	L	Freq, I	Haszeldine	JCS	-	(1954)	691
$C_5H_{10}N_2O_2$	Acetylglycine-N-methyl-amide	2.8-3.2μ	Sol	Spec, Freq	Mizushima	JACS	73	(1951)	1330
		2.7-3.1μ	Sol	Spec, H bond	Mizushima	JACS	74	(1952)	270
		2.8-3.2μ	Sol	Spec, Config, H bond	Mizushima	JACS	74	(1952)	4639
		2.7-3.5μ	S	Spec, Config	Mizushima	JACS	75	(1953)	1863
		2.8-3.1μ	Sol	Spec, Struct	Mizushima	JACS	76	(1954)	2479
		-	-	I	Mizushima	JACS	76	(1954)	6003
		2-16μ	S	Spec, Assign, I	Asai	JPC	59	(1955)	322
		400-1800	S	Assign	Moriwaki	JACS	81	(1959)	5914
		2800-3500	Sol	Config	Tsuboi	JACS	81	(1959)	1406
$C_5H_{10}N_2O_2$	N-Methyldiacetamide	1600-1800	L,Sol	Freq	Hall	JACS	80	(1958)	6428
$C_5H_{10}N_2O_3$	Alanylglycine (L,D)	500-625	S	Freq, Assign	Ellenbogen	JACS	78	(1956)	363
$C_5H_{10}N_2O_3$	Glutamine	2-9μ	Sol	Spec, Freq	Jencks	ABB	88	(1960)	193
$C_5H_{10}N_2O_3$	L-Glutamine	1538-909	Sol	Spec	Parker	SA	16	(1960)	910
$C_5H_{10}N_2O_3$.HCl	Glutamine hydrochloride	2-9μ	Sol	Spec, Freq	Jencks	ABB	88	(1960)	193
$C_5H_{10}N_2O_3$	Glycyl-DL-alanine	-	-	Freq	Buswell	JPC	44	(1940)	1126
		500-625	S	Freq, assign	Ellenbogen	JACS	78	(1956)	363
$C_5H_{10}N_2O_4$	1,1-Dinitropentane	-	-	Spec	Novikov	IANS	-	(1959)	1855
$C_5H_{10}N_2O_4$	1,1-Dinitro-3-methyl-butane	-	-	Spec	Novikov	IANS	-	(1959)	1855
$C_5H_{10}N_2O_4$.HCl	O-Glycyl-DL-serine hydrochloride	2-15μ	S	Spec	Moore	JACS	76	(1954)	2884
$C_5H_{10}N_2O_4$.HCl	O-Glycyl-L-serine hydrochloride	2-15μ	S	Spec	Moore	JACS	76	(1954)	2884
		-	-	Ident	Nicholaids	JACS	76	(1954)	2887
$C_5H_{10}N_2S$	cis-Crotylthiourea	7.65-13μ	S	Table	Ettlinger	JACS	77	(1955)	1831
$C_5H_{10}N_2S$	trans-Crotylthiourea	7.65-13μ	S	Table	Ettlinger	JACS	77	(1955)	1831
$C_5H_{10}N_4S$	5-(n-Butylamino)-1,2,3,4-thiatriazole	700-1700	S	Spec, Struct, Config assign, Taut	Lieber	CJC	36	(1958)	801

$C_5H_{10}N_6O$	N-(β-Hydroxyethyl)-melamine	2-16 μ	S	Spec, Struct	Padgett	JACS	80 (1958)	803
$C_5H_{10}N_{10}O_{14}$	1,9-Dinitroxy-2,4,6,8-tetranitro-2,4,6,8-tetrazanonane	2-15 μ	S	Spec, Freq	Lieber	AC	23 (1951)	1594
$C_5H_{10}O$	Allyl ethyl ether	800-1900	-	Spec	Barnes	IEC	15 (1943)	659
		10-15 μ	L	Spec	Patterson	AC	26 (1954)	823
$C_5H_{10}O$	Cyclopentanol	665-500	L	Freq	Zeiss	JACS	75 (1953)	897
		-	L	Reference for -O-OH comparison	Mosher	AC	27 (1955)	517
		2.75-2.90 μ	Sol	Freq, H bond	Moriconi	JACS	81 (1959)	6472
$C_5H_{10}O$	1-Cyclopropylethanol	2-13 μ	-	Freq	Slabey	JACS	71 (1949)	3252
		-	-	Ident	Pearson	JACS	75 (1953)	1065
		665-5000	L	Freq	Zeiss	JACS	75 (1953)	897
		-	L, Sol	Freq	Slabey	JACS	76 (1955)	3604
$C_5H_{10}O$	Diethyl ketone	-	-	IR, Spec	Whitelaw	PR	34 (1929)	376
		500-1750	L	Assign	Thompson	JCS	- (1945)	640
		1738	G	C=O freq	Hartwell	JCS	- (1948)	1436
		1700	Sol	I	Richards	TFS	45 (1949)	874
		1200-2900	L	I	Francis	JCP	19 (1951)	942
		2800-3000	Sol	Freq, Spec	Pozefsky	AC	23 (1951)	1611
		15-25 μ	L	Transparent solvent	Marrison	JSI	29 (1952)	233
		1710-1727	Sol	Freq, I	Barrow	JCP	21 (1953)	2008
		1300-3050	Sol	Ident, Assign	Nolin	JACS	75 (1953)	5626
		1600-1800	Sol	C=O freq	Fuson	JACS	76 (1954)	2526
		-	Sol	I	Hirota	BCSJ	27 (1954)	295
		-	Sol	Freq, I	Thompson	SA	13 (1958)	236
		18-20 μ	G	Spec	Moller	CPR	249 (1959)	2534
$C_5H_{10}O$	1,1-Dimethyltrimethyl-ene oxide	2564-2689	Sol	Freq, H bond	Searles	JACS	73 (1951)	3704
		2-15 μ	Sol, L	Spec, Freq, Assign	Barrow	JACS	75 (1953)	1175
$C_5H_{10}O$	2,2-Dimethyltrimethylene oxide	2-15 μ	Sol, L	Spec, Freq, Assign	Barrow	JACS	75 (1953)	1175
$C_5H_{10}O$	α-Hydroxyethylcyclo-propane	3-11 μ	L	Ident	Allen	JOC	22 (1957)	1291
$C_5H_{10}O$	Isopropyl vinyl ether	600-4000	G, Sol	Spec, Freq	Mikawa	BCSJ	29 (1956)	110
		-	Sol	Freq, Spec	Potts	SA	15 (1959)	679

$C_5H_{10}O$	Isovaleraldehyde	1.1-2.1 μ	L	Spec, Assign	Kellner	PRS	157	(1936)	100
		7-14 μ	-	Formation of hemiacetate	Ashdown	JCS	-	(1948)	1454
		2700-3000	Sol	Spec, Freq	Pozefsky	AC	23	(1951)	1611
		-	Sol	Freq, I, Ext coefficient	Pinchas	AC	27	(1955)	2
$C_5H_{10}O$	Methyl n-propyl ketone	0.7-2.5 μ	L	C=O freq	Ellis	JACS	51	(1929)	1384
		500-1750	L	Assign	Thompson	JCS	-	(1945)	640
		17.37 μ	G	C=O freq	Hartwell	JCS	-	(1948)	1436
		1650-1800	Sol	Ext coefficient	Cross	TFS	47	(1951)	354
		1200-2900	L	I	Francis	JCP	19	(1951)	942
		2800-3600	Sol	Stretch freq, Spec	Pozefsky	AC	23	(1951)	1611
		1600-1800	Sol	C=O freq	Fuson	JACS	76	(1954)	2526
		1700	Sol	Freq, I	Thompson	SA	9	(1957)	208
		-	Sol	Freq	Rao	JPC	63	(1959)	1311
$C_5H_{10}O$	Methyl isopropyl ketone	-	-	Freq	Barnes	IEC	15	(1943)	659
		2800-3000	Sol	Freq, Spec	Pozefsky	AC	23	(1951)	1611
		5-7 μ	L	Freq, Rate study	Friess	JACS	74	(1952)	1302
		1600-1800	Sol	C=O freq	Fuson	JACS	76	(1954)	2526
		-	S?L,G, Sol	Freq	Bellamy	JCS	-	(1957)	4294
		-	Sol	Freq	Rao	JPC	63	(1959)	1311
		-	Sol	Band freq	Baker	JACS	82	(1960)	1923
$C_5H_{10}O$	2-Methyltetrahydro-furan	2-15 μ	L,Sol	Spec, Freq, Assign	Barrow	JACS	75	(1953)	1175
$C_5H_{10}O$	cis-n-3-Pentenol	6-15 μ	L	Spec	Crombie	JCS	-	(1950)	1714
$C_5H_{10}O$	trans-n-3-Pentenol	6-15 μ	L	Spec	Crombie	JCS	-	(1950)	1714
$C_5H_{10}O$	4-Penten-1-ol	3 μ	Sol	Freq	Oki	BCSJ	32	(1959)	567
$C_5H_{10}O$	n-Propyl vinyl ether	600-4000	G,Sol	Spec, Freq	Mikawa	BCSJ	29	(1956)	110
$C_5H_{10}O$	Tetrahydropyran	-	-	Assign	Ramsay	TFS	44	(1948)	289
		6.5-13 μ	L	Spec	Burket	JACS	72	(1950)	4397
		2689-2574	Sol	H bond, Freq	Searles	JACS	73	(1951)	3704
		2-15 μ	L	Spec	Shieve	AC	23	(1951)	277
		-	-	Group & band freq	Barker	JCS	-	(1954)	4211
		-	-	Struct	Hurd	JACS	77	(1955)	2793
$C_5H_{10}O$	Trimethylethylene oxide	1250	-	Struct	Field	JCP	18	(1950)	1298

$C_5H_{10}O$	Valeraldehyde	1.1-2.1 μ	L	Spec, Assign	Kellner	PRS	157	(1936)	100
$C_5H_{10}OS$	Acetone ethylenehemi-thioketal	-	Sol	Band freq	Djerassi	JACS	75	(1953)	3704
$C_5H_{10}OS$	Butyl formyl sulphide	16-25 μ	Sol	Struct	Nyquist	SA	15	(1959)	514
$C_5H_{10}OS$	Pentamethylene sulfoxide	-	Sol	Bonds with $CHCl_3$ determined by heat of mixing	Tamres	JACS	81	(1959)	2100
$C_5H_{10}OS_2$	Dithioethyl carbonate	1-16 μ	-	Spec	Felumb	BSCF	-	(1957)	890
$C_5H_{10}O_2$	n-Butyl formate	-	-	Absorption coefficient	Bonino	TFS	25	(1929)	876
		500-1750	L	Assign	Thompson	JCS	-	(1945)	640
		1754	G	C=O freq	Hartwell	JCS	-	(1948)	1436
		2800-3100	Sol	Freq, Spec	Pozefsky	AC	23	(1951)	1611
		-	-	Band freq, Rot iso	Karpovich	JCP	22	(1954)	1767
		1200	Sol	Freq	Russell	JCS	-	(1955)	479
		-	Sol	Freq, I	Thompson	SA	13	(1958)	236
		800-1500	Sol	Assign	Katritzky	SA	16	(1960)	954
		-	-	Assign	Katritzky	SA	16	(1960)	964
$C_5H_{10}O_2$	sec-Butyl formate	2800-3150	Sol	Freq, Spec	Pozefsky	AC	23	(1951)	1611
$C_5H_{10}O_2$	cis-Cyclopentane-1,2-diol	3 μ	Sol	Freq	Kuhn	JACS	74	(1952)	2492
		-	Sol	Freq	Kwart	JACS	76	(1954)	5400
		-	Sol	OH freq	Eliel	JACS	77	(1955)	3600
		3500-3650	Sol	H bond	Brimacombe	TE	4	(1958)	351
$C_5H_{10}O_2$	trans-Cyclopentane-1,2-diol	3 μ	Sol	Freq	Kuhn	JACS	74	(1952)	2492
		-	Sol	OH freq	Eliel	JACS	77	(1955)	3600
		3500-3650	Sol	H bond	Brimacombe	TE	4	(1958)	351
$C_5H_{10}O_2$	Cyclopentyl hydroperoxide	5.5-14.5 μ	L	Spec, Freq	Mosher	AC	27	(1955)	517
$C_5H_{10}O_2$	2,2-Dimethyl-1,3-dioxolan	400-3100	G	Freq, Assign	Barker	JCS	-	(1959)	802
$C_5H_{10}O_2$	2,4-Dimethyl-1,3-dioxolan	400-3100	G	Freq, Assign	Barker	JCS	-	(1959)	802
$C_5H_{10}O_2$	2,2-Dimethylpropionic acid	1300-2000	Sol	Spec	Gillette	JACS	58	(1936)	58
		700-1500	S	Spec, Assign	Hadzi	PRS	216	(1953)	247
		5.7-5.9 μ	Sol	IR	Chang	JPC	60	(1956)	782
$C_5H_{10}O_2$	1,2-Epoxy-1-methoxybutane	2-16 μ	Sol	Spec	Stevens	JACS	76	(1954)	2695

$C_5H_{10}O_2$	β-Ethoxypropaldehyde	-	-	Ident	Hall	JCS	-	(1954)	3388
$C_5H_{10}O_2$	Ethyl propionate	1-2.5 μ	L	Spec	Smith	JACS	48	(1926)	1512
		-	-	Freq, Absorption coeff	Bonino	TFS	25	(1929)	876
		0.7-2.5 μ	L	C=O study	Ellis	JACS	51	(1929)	1384
		500-1750	L	Assign	Thompson	JCS	-	(1945)	640
		1761 μ	G	C=O freq	Hartwell	JCS	-	(1948)	1436
		1200-2900	L	I	Francis	JCP	19	(1951)	942
		2800-3000	Sol	Freq, Spec	Pozefsky	AC	23	(1951)	1611
		15-25 μ	L	Transparent solvent	Marrison	JSI	29	(1952)	233
		1726-1741	Sol	Freq, I	Barrow	JCP	21	(1953)	2008
		-	L	Analysis	Lashack	JACS	75	(1953)	3544
		-	Sol	I	Hirota	BCSJ	27	(1954)	295
		-	Sol	Freq	Felton	JCS	-	(1955)	2170
		1200	Sol	I	Russell	JCS	-	(1955)	479
		2-15 μ	Sol	Assign	Walton	JACS	79	(1957)	3985
		600-4000	L	Spec, Assign	LeFerre	AJC	11	(1958)	92
		-	-	23 solvents added to spectroquality grade	Barrow	AC	30	(1958)	63
		-	Sol	Freq, I	Thompson	SA	13	(1958)	236
		-	Sol	I	Gutjahr	SA	16	(1960)	1209
		800-1500	Sol	Assign	Katritzky	SA	16	(1960)	954
		-	-	Assign	Katritzky	SA	16	(1960)	964
$C_5H_{10}O_2$	2-Hydroxy-2-methyl-butanoic acid	-	-	Ident	Ham	JACS	76	(1954)	6066
$C_5H_{10}O_2$	4-Hydroxy-3-methyl-2-butenone	1050-1800	-	Spec	Barnes	IEC	15	(1943)	659
$C_5H_{10}O_2$	1-Hydroxymethyl-1-cyclobutanol	650-3700	L	Spec, Ident	Roberts	JACS	71	(1949)	3925
$C_5H_{10}O_2$	Isobutylformate	-	-	Absorption coefficient	Bonino	TFS	25	(1929)	876
		500-1750	L	Assign	Thompson	JCS	-	(1945)	640
		1754	G	Freq	Hartwell	JCS	-	(1948)	1436
		2800-3150	Sol	Spec, Freq	Pozefsky	AC	23	(1951)	1611
		-	-	C-O band freq, Rot iso	Karpovich	JCP	22	(1954)	1767
		1200	Sol	Band, I	Russell	JCS	-	(1955)	479
		-	Sol	Freq, I	Thompson	SA	13	(1958)	236
		800-1500	Sol	Assign	Katritzky	SA	16	(1960)	954
		-	-	Assign	Katritzky	SA	16	(1960)	964

$C_5H_{10}O_2$	Isopropyl acetate	500-1750	L	Assign	Thompson	JCS	-	(1945)	640
		500-1500	-	Spec	Thompson	TFS	41	(1945)	246
		1762	G	C=O freq	Hartwell	JCS	-	(1948)	1436
		2800-3000	Sol	Freq, Spec	Pozefsky	AC	23	(1951)	1611
		-	-	Band freq	Edwards	JCS	-	(1953)	3427
		-	-	C-O freq	Karpovich	JCP	22	(1954)	1767
		1200	Sol	I	Russell	JCS	-	(1955)	479
		800-1500	Sol	Assign	Katritzky	SA	16	(1960)	954
		-	-	Assign	Katritzky	SA	16	(1960)	964
$C_5H_{10}O_2$	Isovaleric acid	2800-3100	Sol	Freq, Spec	Pozefsky	AC	23	(1951)	1611
		7-8μ	L	Struct, Spec	Freeman	JACS	74	(1952)	2523
		.9-3μ	Sol	Spec, IR	Holman	AC	28	(1956)	1533
$C_5H_{10}O_2$	1-Methoxy-3-butenone	-	Sol	Freq, H bond	Searles	JACS	75	(1953)	71
$C_5H_{10}O_2$	2-Methoxyethyl vinyl ether	1500-5000	Sol	Group freq	Briggs	AC	29	(1957)	904
$C_5H_{10}O_2$	Methyl isobutyrate	20.7-152μ	S	Transmission reflection	Seifert	RSI	11	(1940)	365
		500-1750	L	Assign	Thompson	JCS	-	(1945)	640
		500-1500	-	Spec	Thompson	TFS	41	(1945)	246
$C_5H_{10}O_2$	Methyl n-butyrate	500-1750	L	Assign	Thompson	JCS	-	(1945)	640
		2800-3000	Sol	Spec, Freq	Pozefsky	AC	23	(1951)	1611
		6.84-13.29μ	L	Freq, I	Fowler	JOSA	43	(1953)	1054
		-	-	Assign	Katritzky	SA	16	(1960)	964
		800-1500	Sol	Assign	Katritzky	SA	16	(1960)	954
$C_5H_{10}O_2$	n-Propyl acetate	1-2.5μ	L	Spec	Smith	JACS	48	(1926)	1512
		-	-	Freq	Bonino	TFS	25	(1929)	876
		0.8-2.5μ	L	Spec	Sappenfield	PR	33	(1929)	37
		500-1750	L	Assign	Thompson	JCS	-	(1945)	640
		5.7μ	-	Band width	Anderson	AC	20	(1948)	998
		1768	G	C=O freq	Hartwell	JCS	-	(1948)	1436
		720-750	L	Freq	Wiberley	AC	22	(1950)	841
		1200-2900	L	I	Francis	JCP	19	(1951)	942
		2800-3000	Sol	Freq, Spec	Pozefsky	AC	23	(1951)	1611
		-	L	Band freq	Edwards	JCS	-	(1953)	3427
		-	-	C-O freq	Karpovich	JCP	22	(1954)	1767
		1200	Sol	I	Russell	JCS	-	(1955)	479
		800-1500	Sol	Assign	Katritzky	SA	16	(1960)	954
		-	-	Assign	Katritzky	SA	16	(1960)	964

$C_5H_{10}O_2$	Tetrahydropyran-2-ol	3500-3700	Sol	H bond	Barker	TE	7	(1959)	10
$C_5H_{10}O_2$	Tetrahydropyran-3-ol	3500-3700	Sol	H bond	Barker	TE	7	(1959)	10
$C_5H_{10}O_2$	Tetrahydropyran-4-ol	3500-3700	Sol	H bond	Barker	TE	7	(1959)	10
$C_5H_{10}O_2$	2-Tetrahydrofurfuryl alcohol	2-12 μ	L	Spec, Ident	Rogers	JACS	60	(1938)	2619
		7-13 μ	-	Spec	Craig	JACS	72	(1950)	3277
		700-1000	-	Freq, I	Barker	JCS	-	(1954)	4550
		3 μ	Sol	Freq, H bond	Flett	SA	10	(1958)	21
		3500-3700	Sol	H bond	Barker	TE	7	(1959)	10
$C_5H_{10}O_2$	Trimethylacetic acid	-	Sol	Freq	Goulden	SA	6	(1954)	129
$C_5H_{10}O_2$	Valeric acid	3500-670	L,S	Spec	Corish	JCS	-	(1957)	1746
		3-6 μ	Sol	Equilibrium const, I	Wenograd	JACS	79	(1957)	5844
$C_5H_{10}O_2S$	2-Methyl-p-oxathiane	-	-	Spec, Ident	Hatch	JACS	74	(1952)	1826
$C_5H_{10}O_3$	3-Acetoxypropan-1-ol	-	Sol	Band position, Ext coeff	Henbest	JCS	-	(1958)	2633
$C_5H_{10}O_3$	1:5-Anhydro-2-deoxy-L-erythropentitol	3500-3650	Sol	H bond	Brimacombe	TE	4	(1958)	351
$C_5H_{10}O_3$	1:5-Anhydro-2-deoxy-D-threopentitol	3500-3650	Sol	H bond	Brimacombe	TE	4	(1958)	351
$C_5H_{10}O_3$	Diethyl carbonate	1-2.5 μ	L	Spec	Smith	JACS	48	(1926)	1512
		1-12 μ	L	Spec, Assign	Bell	JACS	50	(1928)	2940
		-	-	Freq, Absorption coeff	Bonino	TFS	25	(1929)	876
		1050-1800	-	Spec, Freq	Barnes	IEC	15	(1943)	659
		500-1750	L	Assign	Thompson	JCS	-	(1945)	640
		1767	G	Freq	Hartwell	JCS	-	(1948)	1436
		1744-1750	Sol	Freq, I	Barrow	JCP	21	(1953)	2008
		-	Sol	I	Hirato	BCSJ	27	(1954)	295
		1200	Sol	I	Russell	JCS	-	(1955)	479
		1-15 μ	-	Spec	Felumb	BSCF	-	(1957)	890
		-	Sol	Freq, Struct	Hales	JCS	-	(1957)	618
		700-400	S	Freq, Assign	Gatehouse	JCS	-	(1958)	3137
		1600-1800	L,Sol	Freq	Hall	JACS	80	(1958)	6428
		-	Sol	Freq, I	Thompson	SA	13	(1958)	236
		-	Sol	I, Freq	Mirone	AC	49	(1959)	52
		-	-	Assign	Katritzky	SA	16	(1960)	964

$C_5H_{10}O_3$	Ethyl ethoxy formate	800-1500	Sol	Assign	Katritzky	SA	16	(1960)	954
$C_5H_{10}O_3$	Ethyl lactate	1-2.5μ	L	Spec	Smith	JACS	48	(1926)	1512
		6700-7400	Sol	Spec	Wulf	JACS	57	(1935)	1464
		-	Sol	Spec, Struct	Pauling	JACS	58	(1936)	94
		3μ	Sol	H bond	Mori	NKZ	77	(1956)	459
		3μ	Sol	Freq	Tsubomura	JCP	24	(1956)	927
		3μ	Sol	H bond, Freq	Flett	SA	10	(1958)	21
		1000-1500	Sol	Freq	Goulden	SA	16	(1960)	715
$C_5H_{10}O_3$	2-Methoxybutyric acid	1500-5000	Sol	Freq	Briggs	AC	29	(1957)	904
$C_5H_{10}O_3$	2-Methyl-1:3-dioxan-5-ol	3500-3700	Sol	H bond	Barker	TE	7	(1959)	10
$C_5H_{10}O_3$	Methyl β-methoxy-propionate	1800-800	Sol	Spec	Lee	JAPC	3	(1953)	431
		1300-2500	-	Spec	Hediger	HCA	37	(1954)	1125
$C_5H_{10}O_4$	d-Desoxyribose	9-11.5μ	S	Freq	Schwarz	APS	6	(1952)	15
$C_5H_{10}O_4$	α-Methyl-α,β-dihydroxy-butyric acid	2-13μ	S	Spec	Klohs	JACS	74	(1952)	5107
		-	-	Ident	Klohs	JACS	75	(1953)	3595
$C_5H_{10}O_4$	dl-α-Methyl-α,β-dihydroxy-butyric acid	-	S	Ident	Myers	JACS	77	(1955)	3348
$C_5H_{10}O_5$	β-D-Arabinose	800-3000	S	Freq	Barker	N	186	(1960)	307
$C_5H_{10}O_5$	D-l-Arabinose	1090-3030	Sol	Freq, Assign	Rogers	JACS	60	(1938)	2619
		1.7-4.6μ	Sol	Spec, Struct	Barr	JCP	8	(1940)	51
		-	-	Freq, Assign	Loofbourow	RMP	12	(1940)	267
		-	S	Freq, I	Barker	JCS	-	(1954)	3468
$C_5H_{10}O_5$	L-D-Arabinose	1110-3030	Sol	Freq, Assign	Rogers	JACS	60	(1938)	2619
		1.7-4.6μ	Sol	Spec, Struct	Barr	JCP	8	(1940)	51
		-	-	Freq, Assign	Loofbourow	RMP	12	(1940)	267
		8-15μ	S	Spec	Kuhn	AC	22	(1950)	276
		-	S	Freq, I	Whistler	AC	25	(1953)	1463
$C_5H_{10}O_5$	d-Lyxose	1100-3030	Sol	Freq, Assign	Rogers	JACS	60	(1938)	2619
		-	-	Freq, Assign	Loofbourow	RMP	12	(1940)	267
		-	S	Freq, I	Whistler	AC	25	(1953)	1463
$C_5H_{10}O_5$	D-Ribose	2-15μ	S	Spec	Kuhn	AC	22	(1950)	276
		-	S	Band freq	Schwary	APS	6	(1952)	15

$C_5H_{10}O_5$	α-D-Xylose	800-3000	S	Freq	Barker	N	186	(1960)	307
$C_5H_{10}O_5$	d-Xylose	1.7-4.6μ	Sol	Spec, Struct	Barr	JCP	8	(1940)	51
		-	-	Freq, Assign	Loofbuorow	RMP	12	(1940)	267
		8-15μ	S	Spec	Kuhn	AC	22	(1950)	276
		-	S	Freq, I	Whistler	AC	25	(1953)	1463
		-	S	Freq, I	Barker	JCS	-	(1954)	3468
$C_5H_{10}O_5$	l-Xylose	960-3030	Sol	Freq, Assign	Rogers	JACS	60	(1938)	2619
		-	-	Freq, Assign	Loofbuorow	RMP	12	(1940)	267
		-	S	Band freq, I	Barker	JCS	-	(1954)	3468
		2-15μ	S	Study interaction with KBr	Baker	CHIN	46	(1954)	1418
$C_5H_{10}S$	2-Methylthiacyclopentone	650-3500	-	Spec	Leonard	JACS	74	(1952)	917
$C_5H_{10}S$	Thiacyclohexane	650-3500	-	Spec	Leonard	JACS	74	(1952)	917
		506-1437	L	Assign	Sheppard	TFS	46	(1954)	429
		-	-	IR, Spec	Haines	JPC	60	(1956)	549
$C_5H_{10}S_2$	Ethyldithio propionate	777-2960	L	Freq	Marvel	JACS	77	(1955)	5997
$C_5H_{11}DO$	n-Pentanol-O-d_1	938	L	O-D deformation band	Quinan	JCP	21	(1953)	1896
		650-4000	G,L	Freq, I	Quinan	AC	26	(1954)	1762
$C_5H_{11}Br$	1-Bromo-2-methylbutane	5.5-14μ	-	Spec, Analysis	Brokaw	JOC	13	(1948)	194
$C_5H_{11}Br$	1-Bromo-3-methylbutane	14-19μ	L	Spec	Mortimer	JACS	69	(1947)	822
		-	L	Trans and gauche ratio determination	Yoshino	CJC	35	(1957)	339
$C_5H_{11}Br$	2-Bromo-2-methylbutane	5.5-14μ	-	Spec	Brokaw	JOC	13	(1948)	194
$C_5H_{11}Br$	1-Bromopentane	6.35-14μ	L	Spec, Iso	Pines	JACS	74	(1952)	4063
		500-1500	L,S	Spec, Rot iso	Brown	TFS	50	(1954)	535
		-	L	Trans and gauche ratio determination	Yoshino	CJC	35	(1957)	339
$C_5H_{11}Br$	2-Bromopentane	6.4-14μ	L	Spec, Iso	Pines	JACS	74	(1952)	4063
		10.2μ	Sol	Quant analysis	Scheske	AC	29	(1957)	1895
$C_5H_{11}Br$	3-Bromopentane	6.35-14μ	L	Spec, Iso	Pines	JACS	74	(1952)	4063
		12.1-12.8μ	Sol	Quant analysis	Scheske	AC	29	(1957)	1895

$C_5H_{11}Cl$	1-Chloro-2,2-dimethyl-propane	-	-	Freq, Rot iso	Brown	TFS	50	(1954)	1164
		-	-	Freq	Nakamura	JCP	26	(1957)	970
$C_5H_{11}Cl$	2-Chloro-2-methyl-butane	-	-	Freq, Rot iso	Brown	TFS	50	(1954)	1164
$C_5H_{11}Cl$	3-Chloroisopentane	-	-	Freq	Nakamura	JCP	26	(1957)	970
$C_5H_{11}Cl$	1-Chloropentane	16-25μ	L	Transparent solvent	Merrison	JSI	29	(1952)	233
$C_5H_{11}ClO_2S$	1-Ethylpropanesulphonyl chloride	-	-	Spec, Freq	Geiseler	ZE	60	(1960)	421
$C_5H_{11}ClO_2S$	1-Methylbutanesulphonyl chloride	-	-	Spec, Freq	Geiseler	ZE	60	(1960)	421
$C_5H_{11}ClO_2S$	n-Pentanesulphonyl chloride	-	-	Spec, Freq	Geiseler	ZE	60	(1960)	421
$C_5H_{11}Cl_3NB$	Piperidine-boron trichloride complex	600-3500	Sol	Complex study	Greenwood	JCS	-	(1960)	1130
$C_5H_{11}Cl_3OSi$	Trichlorosilylbutyl methyl ether	-	-	Inductive effect	Josien	CPR	249	(1959)	826
$C_5H_{11}Cl_3OSi$	Trichlorosilylmethyl butyl ether	-	-	Inductive effect	Josien	CPR	249	(1959)	826
$C_5H_{11}Cl_3OSi$	Trichlorosilylpropyl ethyl ether	-	-	Inductive effect	Josien	CPR	249	(1959)	826
$C_5H_{11}N$	N-Methylpyrrolidine	2900-3100	Sol	Freq	Hill	JCS	-	(1958)	760
$C_5H_{11}N$	Piperidine	-	-	Freq	Bonino	TFS	25	(1929)	876
		-	-	Effect as solvent on OD band	Gordy	JCP	7	(1939)	93
		-	-	Effect as solvent on HC band	Gordy	JCP	7	(1939)	163
		1550-3700	L,Sol	Spec, Freq	Marion	JACS	73	(1951)	305
		2.7-4.7μ	Sol	Spec	Sternberg	JACS	75	(1953)	3148
		-	Sol	Freq, I, Ext coefficient	Russell	JCS	-	(1955)	483
		600-4000	L	Spec	Heacock	CJC	34	(1956)	1782
		3-4μ	L,Sol	Freq	Tallent	AC	28	(1956)	953
		2-8μ	S	Spec	Nakanishi	BCSJ	30	(1957)	403

		2800-3000	L,S	Detection of N Me group	Braunhotz	JCS	-	(1958)	2780
		2900-3100	L	Freq	Hill	JCS	-	(1958)	760
		3.38-3.6μ	S	Freq	Wright	JOC	24	(1959)	1362
$C_5H_{11}N.HCl$	Piperidine hydrochloride	600-400	S	Spec	Heacock	CJC	34	(1956)	1782
		-	S	Spec	Nakanishi	BCSJ	30	(1957)	403
		1000-3500	Sol,S	Spec, Freq	Chenon	CJC	36	(1958)	1181
		600-4000	S	Freq, Assign	Stone	JCS	-	(1958)	52
$C_5H_{11}N.HBr$	Piperidine hydro-bromide	1000-3500	S,Sol	Freq	Chenon	CJC	36	(1958)	1181
$C_5H_{11}N.HI$	Piperidine hydriodide	1000-3500	S,Sol	Freq	Chenon	CJC	36	(1958)	1181
$C_5H_{11}NO$	cis-2-Aminocyclopentanol	-	Sol	Freq, Assign	Sicher	CCCC	24	(1959)	950
$C_5H_{11}NO$	trans-2-Aminocyclopentanol	-	Sol	Freq, Assign	Sicher	CCCC	24	(1959)	950
$C_5H_{11}NO$	N,N-Diethylformamide	1700	Sol	I,C=O vibrations	Richards	TFS	45	(1949)	874
		-	L	Amide I band	Robson	JACS	77	(1955)	498
		-	Sol	Freq, I	Thompson	SA	13	(1958)	236
$C_5H_{11}NO$	N,N-Dimethylpropion-amide	51-59μ	Sol	I	Schmulbach	JPC	64	(1960)	1956
$C_5H_{11}NO$	N-Ethylpropionamide	600-3400	Sol,L	Freq, Spec, Assign	Beer	JCP	29	(1958)	1097
$C_5H_{11}NO$	2,2-Dimethyloxazolidine	-	Sol	Freq, Ext coefficient	Bergmann	JACS	75	(1953)	358
$C_5H_{11}NO$	2-Methylbutyramide	-	-	Ident	Snyder	JACS	76	(1954)	2441
$C_5H_{11}NO$	N-Methylmorpholine	2900-3100	Sol	Freq	Hill	JCS	-	(1958)	760
$C_5H_{11}NO$	N-Propylacetamide	1200-8000	Sol	Freq, Assign	Hecht	PRS	235	(1956)	174
		400-3400	L,Sol	Spec, Freq, Assign	Beer	JCP	29	(1958)	1097
$C_5H_{11}NO$	N-Valeramide	2.7-3.7μ	S	H bond	Buswell	JACS	62	(1940)	2759
		-	-	FC	Richards	TFS	44	(1948)	40
$C_5H_{11}NO_2$	δ-Amino-n-Valeric acid	1538-909	Sol	Spec	Parker	SA	16	(1960)	910

$C_5H_{11}NO_2$	n-Amyl nitrite	5.76-8.07μ	L,Sol	I, Freq	Haszeldine	JCS	-	(1954)	691
		-	L,G,Sol	Assign, Rot iso, Struct	Haszeldine	JCS	-	(1955)	4172
$C_5H_{11}NO_2$	Betaine	4000-650	S	Spec	Adams	JACS	71	(1949)	3826
		3200-3700	-	H bond	Saxena	JCS	-	(1959)	1579
$C_5H_{11}NO_2$	Ethyl N-ethylcarbamate	-	-	Freq	Robson	JACS	77	(1955)	245
		3μ	Sol	Close pair of bands more stable, Freq	Russell	SA	8	(1956)	138
$C_5H_{11}NO_2$	β-Hydroxyisovaleramide	-	-	OH and NH_2 indic	Gresham	JACS	76	(1954)	486
$C_5H_{11}NO_2$	Isopentyl nitrite	2-25μ	G	Rot iso	Tarte	JCP	20	(1952)	1570
		-	G,L, Sol	Assign, Rot iso, Struct	Haszeldine	JCS	-	(1955)	4172
$C_5H_{11}NO_2$	1-Nitropentane	-	L	Freq, I	Haszeldine	JCS	-	(1953)	2525
$C_5H_{11}NO_2$	DL-Norvaline	667-5000	S	Spec, Freq, Struct	Liefer	JACS	79	(1957)	5098
		400-3600	-	Spec, Assign	Takenishi	NKZ	81	(1960)	1496
$C_5H_{11}NO_2$	s-Pentyl nitrite	2-25μ	G	Rot iso	Terte	JCP	20	(1952)	1570
$C_5H_{11}NO_2$	t-Pentyl nitrite	2-25μ	G	Rot iso	Tarte	JCP	20	(1952)	1570
$C_5H_{11}NO_2$	Valine	5-10μ	S	Spec, Assign	Klotz	JPCC	52	(1948)	961
		1-12μ	Sol	Spec, Assign	Lacher	JPC	58	(1954)	206
		2.5-11μ	Sol	Spec	Wright	APS	9	(1955)	105
		2.5-11μ	Sol	Spec	Potts	AC	28	(1956)	1255
		600-4000	S	Ident	Epp	AC	29	(1957)	1283
$C_5H_{11}NO_2$	DL-Valine	667-5000	S	Spec, Freq, Struct	Leifer	JACS	79	(1957)	5098
		6-11μ	Sol	Spec	Parker	N	187	(1960)	386
		1538-909	Sol	Spec	Parker	SA	16	(1960)	910
$C_5H_{11}NO_2 \cdot HCl$	Alanine ethyl ester hydrochloride	2-9μ	Sol	Spec, Freq	Jencks	ABB	88	(1960)	193
$C_5H_{11}NO_2 \cdot HCl$	Betaine hydrochloride	667-5000	S	Spec, Freq, Struct	Liefer	JACS	79	(1957)	5098
		1350-1500	S	Spec, Ident	Watson	SA	16	(1960)	1322
$C_5H_{11}NO_2 \cdot HCl$	N,N-Dimethyl-β-alanine hydrochloride	1350-1500	S	Spec, Ident	Watson	SA	16	(1960)	1322

$C_5H_{11}NO_2 \cdot HCl$	Valine hydrochloride	5-10 μ	Sol	Spec, Assign	Klotz	JPCC	52	(1948)	961
$C_5H_{11}NO_2 \cdot HCl$	L-Valine hydrochloride	2-15 μ	-	Spec, Ident	Larsson	ACS	4	(1950)	27
$C_5H_{11}NO_2S$	Methionine	-	-	Band freq	Cymerman	JCS	-	(1951)	1332
		670-1800	S	Spec, Freq	Short	JCS	-	(1951)	1746
		600-4000	S	Ident	Epp	AC	29	(1957)	1283
$C_5H_{11}NO_2S$	L-Methionine	1538-909	Sol	Spec	Parker	SA	16	(1960)	910
$C_5H_{11}NO_3$	n-Pentyl nitrate	2-15 μ	Sol	Spec, Struct	Carrington	SA	16	(1960)	1279
$C_5H_{11}NO_3 \cdot HCl$	Serine ethyl ester hydrochloride	2-9 μ	Sol	Spec, Freq	Jencks	ABB	88	(1960)	193
$C_5H_{11}NO_3S$	DL-Methionine sulfoxide	670-1800	S	Spec, Freq	Short	JCS	-	(1951)	1746
$C_5H_{11}NO_4 \cdot HCl$	3-Amino-3-deoxy-D-arabinose hydrochloride	-	-	Ident	Baker	JACS	77	(1955)	7
$C_5H_{11}NO_4 \cdot HCl$	3-Amino-3-deoxy-D-ribofuranose hydrochloride	-	-	Ident	Baker	JACS	77	(1955)	7
$C_5H_{11}NO_4 \cdot HCl$	3-Amino-D-ribopyranose hydrochloride	-	-	Ident	Baker	JOC	19	(1954)	646
$C_5H_{11}NO_4S$	DL-Methionine sulfone	670-1800	S	Spec, Freq	Short	JCS	-	(1951)	1746
$C_5H_{11}NO_5$	D-3-Aminoribose	-	-	Ident	Waller	JACS	75	(1953)	2025
$C_5H_{11}NSi$	Cyanomethyltrimethylsilane	-	-	Freq, Ident	Prober	JACS	77	(1955)	3224
$C_5H_{11}N_2O_2P$	Ethyl dimethylamino-cyanophosphonate	-	-	P=O freq	Bell	JACS	76	(1954)	5185
$C_5H_{11}N_3O$	Ethyl methyl ketone semicarbazone	700-3500	S	Ident, Assign	Davison	JCS	-	(1955)	3389
$C_5H_{11}O_3B$	Ethylene-n-propyl borate	6-14 μ	L,S	Assign, Struct	Blau	JCS	-	(1960)	380

$C_5H_{11}O_3B$	Ethylene-isopropyl-borate	6-14 μ	L,S	Assign, Struct	Blau	JCS	-	(1960)	380
$C_5H_{11}O_4P$	Ethyltrimethylene-phosphate	-	Sol	Assign	Jones	JCS	-	(1960)	4376
C_5H_{12}	Isopentane	1.1-1.8 μ	Sol	Spec	Liddel	JRNB	11	(1933)	599
		-	-	Thermo	Pitzer	CR	27	(1940)	39
		-	-	Thermo	Schmann	JACS	64	(1942)	1039
		-	G	Analysis	Jones	IEC	17	(1945)	349
		-	-	Freq	Kellner	TFS	41	(1945)	217
		-	-	Ext coefficient	Lee	IEC	18	(1946)	659
		-	L	Analysis	Glasgow	JRNB	38	(1947)	537
		-	-	Freq	Kent	AC	19	(1947)	290
		-	-	Freq	Sutherland	JCP	15	(1947)	153
		2-15 μ	G	Spec, Assign	Rasmussen	JCP	16	(1948)	712
		-	-	Assign	Sheppard	JCP	16	(1948)	690
		-	G	Analysis	Thornton	AC	20	(1948)	9
		-	G	Analysis	Milsom	AC	21	(1949)	547
		-	-	Band width	Rank	JCP	17	(1949)	339
		-	-	Freq	Simpson	PRS	199	(1949)	169
		-	-	Analysis	Starr	AC	21	(1949)	572
		-	-	Assign, Thermo	Szasz	JCP	17	(1949)	93
		650-1600	L,S	Rot iso	Axford	JCP	18	(1950)	51
		-	G	Analysis	Bell	AC	22	(1950)	1005
		-	G	Analysis	O'Neal	AC	22	(1950)	991
		-	-	Rot iso	Sheppard	JCP	18	(1950)	145
		-	-	Rot iso	Brown	JCP	19	(1951)	976
		-	-	Thermo, Freq, Assign	Scott	JACS	73	(1951)	1707
		700-350	L	Freq	Donneaud	CPR	239	(1954)	1480
C_5H_{12}	n-Pentane	-	L	Freq	Ellis	JOSA	8	(1924)	1
		0-2.5 μ	L	Spec	Ellis	PR	23	(1924)	48
		.589-2.8 μ	L	Spec	Ellis	PR	27	(1926)	298
		0.75 -0.92 μ	L	Band struct	Barnes	JACS	50	(1928)	1033
		-	-	Freq	Bonino	TFS	25	(1929)	876
		0.7-2.5 μ	L	C=O freq	Ellis	JACS	51	(1929)	1384
		0-2.4 μ	L	Spec	Lecomte	TFS	25	(1929)	864
		1-30 μ	G	Spec	Kattering	P	4	(1933)	39
		1.1-1.8 μ	Sol	Spec	Liddle	JRNB	11	(1933)	599
		-	-	Normal modes	Kassel	JCP	3	(1935)	326
		1-16 μ	-	Moment of inertia	Stinchcomb	JCP	7	(1939)	853
		-	-	Freq, Thermo	Pitzer	JCP	8	(1940)	711

		-	-	Thermo	Pitzer	CR	27	(1940)	39
		1100-1800	-	Spec	Barnes	IEC	15	(1943)	659
		-	-	Thermo	Aston	JCP	12	(1944)	336
		-	-	Freq	Kellner	TFS	41	(1945)	217
		-	-	Spec	Coggeshall	JCP	15	(1947)	65
		-	L	Analysis	Glasgow	JRNB	38	(1947)	537
		-	-	Freq	Kent	AC	19	(1947)	290
		2-15μ	G	Spec, Assign	Rasmussen	JCP	16	(1948)	712
		-	-	Assign, IR	Sheppard	JCP	16	(1948)	690
		-	-	Analysis	Thornton	AC	20	(1948)	9
		-	-	Analysis, FC	Gates	JCP	17	(1949)	393
		8000-9000	Sol	Analysis	Hibbard	AC	21	(1949)	486
		-	-	Analysis	Milsom	AC	21	(1949)	547
		-	-	Freq	Mizushima	JACS	71	(1949)	1320
		-	-	Band width	Rank	JCP	17	(1949)	1339
		-	-	Assign, Thermo	Sheppard	JCP	17	(1949)	86
		-	-	Selection rules	Simanouti	JCP	17	(1949)	1102
		-	-	Analysis	Starr	AC	21	(1949)	572
		650-1600	L,S	Rot iso	Axford	JCP	18	(1950)	51
		-	G	Analysis	Bell	AC	22	(1950)	1005
		1370-2900	L	I	Francis	JCP	18	(1950)	861
		-	G	Analysis	O'Neal	AC	22	(1950)	991
		-	-	Analysis	Jones	JCS	-	(1952)	3261
		-	-	Band freq	Bell	AC	25	(1953)	1720
		120-244	G	No absorption	O'Loane	JCP	21	(1953)	669
		-	S,G	Thermo, Assign	Person	JACS	75	(1953)	532
		300-700	L	Freq	Donneaud	CPR	239	(1954)	1480
		650-1450	S	Freq, Assign	Tschamler	JCP	22	(1954)	1845
		-	-	Freq	Corish	JCS	-	(1955)	2431
		-	-	I	Theimer	JCP	27	(1957)	1041
		15-35μ	S	Spec, Struct	Bentley	SA	15	(1959)	165
		700-3500	L	Freq, Spec	Comeford	JMS	5	(1960)	474
C_5H_{12}	Neopentane	-	-	Solution of rotational wave eqn	Lacoste	PR	46	(1934)	718
		-	-	Thermo	Kassel	JCP	3	(1935)	115
		-	-	Assign	Anderson	JCP	4	(1936)	161
		-	-	Assign	Kassel	JCP	4	(1936)	276
		-	-	Thermo	Edsall	JCP	5	(1937)	225
		-	-	FC	Wall	JCP	6	(1938)	107
		-	-	Freq	Silver	JCP	7	(1939)	1113
		-	-	Thermo	Aston	CR	27	(1940)	59

		-	-	Thermo	Pitzer	CR	27	(1940)	39
		-	-	Quant mech	Silver	JCP	8	(1940)	919
		-	-	Vib analysis	Crawford	JCP	9	(1941)	323
		-	-	Thermo	Pitzer	JCP	10	(1942)	605
		-	-	Internal rotation	Aston	JCP	12	(1944)	336
		2-15 μ	G	Spec	Jones	IEC	17	(1945)	349
		-	-	Thermo	Pitzer	CR	39	(1946)	435
		-	-	CH_3 potential barrier	French	JCP	14	(1946)	389
		-	L	Analysis	Glasgow	JRNB	38	(1947)	537
		-	-	Freq	Sutherland	JCP	15	(1947)	153
		2700-3400	G	Spec, Freq, Assign	Young	JACS	69	(1947)	1410
		2-18 μ	G	Spec, Assign	Rasmussen	JCP	16	(1948)	712
		-	-	Assign	Sheppard	JCP	16	(1948)	690
		-	-	Electrostatic theory of hindered rotation	Lassettre	JCP	17	(1949)	317
		-	-	Freq, FC	Simanouti	JCP	17	(1949)	848
		-	-	Freq, FC	Simpson	PRS	199	(1949)	169
		-	-	FC	Sheline	JCP	18	(1950)	595
		-	-	FC	Sheline	JCP	18	(1950)	602
		-	S	IR	Mainer	PR	83	(1951)	201
		200-1250	-	Spec	Gaubeau	ZAUA	268	(1952)	1
		2-25 μ	G	IR, Spec, Assign	Shull	JCP	21	(1953)	2024
		-	--	NCA, I	Long	PRS	224	(1954)	33
		-	-	Freq	Sheppard	JCP	23	(1955)	585
		-	-	NCA, Assign	Shimizu	BCSJ	30	(1957)	487
$C_5H_{12}BrNO_2$	N,N,N-Trimethyl-N-acetoxyammonium bromide	-	S	Group study	Freeman	JACS	80	(1958)	5954
$C_5H_{12}ClN.HCl$	2-Chloroisopropyldimethylamine hydrochloride	-	-	Spec	Nakanishi	BCSJ	30	(1957)	403
$C_5H_{12}Cl_2Si$	Dichloro-n-pentylsilane	2050-2250	Sol	Freq, Struct	Smith	SA	15	(1959)	412
$C_5H_{12}INS$	N-1-Methylthio-1-ethylidine-N,N-dimethylammonium iodide	-	Sol	Freq	Goulden	JCS	-	(1953)	997
$C_5H_{12}NO_4P$	Diethyl carbam(o)yl-phosphonate	2-16 μ	L,S	Freq	Reetz	JACS	77	(1955)	3813
$C_5H_{12}N_2$	1-Methylpiperazine	3.38-3.60 μ	S	Freq	Wright	JOC	24	(1959)	1362

$C_5H_{12}N_2O$	N-Butylurea	-	-	Freq	Buswell	JPC	44	(1940)	1126
$C_5H_{12}N_2O$	N,N,N',N'-Tetramethyl-urea	-	Sol	Solvent effect	Beguin	HCA	42	(1959)	2262
		-	Sol	Freq	Baker	JACS	82	(1960)	1923
$C_5H_{12}N_2O_2$ 2HCl	L-Ornithine dihydro-chloride	2-15 μ	S	Spec, Ident	Larsson	ACS	4	(1950)	27
$C_5H_{12}N_2O_3S$	L-Methionine sulfoximine	6700-1800	S	Spec, Freq	Short	JCS	-	(1951)	1746
$C_5H_{12}N_2S$	S,N,N,N'-Tetramethyl-isothiourea	2-12 μ	Sol	Spec	Ettlinger	JACS	72	(1950)	4699
$C_5H_{12}N_2S$	N,N,N',N'-Tetramethyl-thiourea	2-12 μ	Sol	Spec	Ettlinger	JACS	72	(1950)	4699
$C_5H_{12}N_4O_2$	N-n-Butyl-N'-nitro-guanidine	2-15 μ	S	Spec, Freq	Lieber	AC	23	(1951)	1594
$C_5H_{12}N_4O_2$	N-Methylene-bis-(N-ethyldiimide)dioxide	600-1600	L,S, Sol	Freq, Struct	George	CJC	37	(1959)	679
$C_5H_{12}O$	1,1-Dimethylpropanol-1	-	-	Freq, Assign	Michinori	BCSJ	32	(1959)	950
$C_5H_{12}O$	2,2-Dimethylpropanol-1	665-5000	L	C-O freq	Zeiss	JACS	75	(1953)	897
		-	S	Ident	D'adamo	JACS	77	(1955)	4408
		-	-	Freq, Assign	Michinori	BCSJ	32	(1959)	950
$C_5H_{12}O$	Ethyl isopropyl ether	-	-	Ident	Crocker	JCS	-	(1955)	2052
$C_5H_{12}O$	L-1-2-Methoxybutane	-	L	Spec not shown	Wiberg	JACS	74	(1952)	3891
$C_5H_{12}O$	2-Methyl-1-butanol	1050-1700	-	Spec	Barnes	IEC	15	(1943)	659
		667-5000	L	Freq	Zeiss	JACS	75	(1953)	897
		350-4000	L,Sol	Spec	Stuart	JCP	24	(1956)	559
$C_5H_{12}O$	2-Methyl-2-butanol	900-1100	L	Spec, H bond	Badger	JCP	5	(1937)	839
		-	-	Vib freq	Bauer	JCP	5	(1937)	852
		-	-	Activation energy, Band freq	Fugassi	JPC	46	(1942)	630
		720-750	L	Band freq	Wiberly	AC	22	(1950)	841
		680-1800	Sol	Spec, Band freq	Philpotts	AC	24	(1952)	638

		-	Sol	Band freq	Levy	JACS	75	(1953)	1253
		350-4000	L,Sol	Spec, FC	Stuart	JCP	24	(1956)	559
		1400-1600	Sol	Mol association	Ens	CJC	35	(1957)	170
		3570-3700	Sol	Freq, I	Flynn	AJC	12	(1959)	575
$C_5H_{12}O$	3-Methyl-1-butanol	0.6-1.35μ	L	a_M variable with conc	Hulburt	JPC	21	(1917)	150
		0.8-2.5μ	L	Spec	Sappenfield	PR	33	(1929)	37
		1-8μ	L	Spec, Freq, Assign	Plyler	PR	35	(1930)	605
		100μ	Sol	Ext coefficient	Errera	TFS	33	(1937)	120
		0.9-4μ	L,Sol	Spec, H bond	Kinsey	JCP	5	(1937)	399
		7-14μ	-	Formation of hemiacetate in mixtures	Ashdown	JCS	-	(1948)	1454
		665-5000	L	C-O freq	Zeiss	JACS	75	(1953)	897
		-	L	-O-OH comparison	Mosher	AC	27	(1955)	517
		350-4000	L,Sol	OH bands	Finch	JCP	24	(1956)	908
		-	-	Freq shift with temp	Stuart	JCP	24	(1956)	559
		3570-3700	Sol	Freq, I	Flynn	AJC	12	(1959)	575
$C_5H_{12}O$	3-Methyl-2-butanol	6900-7300	Sol	Spec, Band, Group freq	Wulf	JACS	57	(1935)	1464
		-	Sol	Band freq	Leoz	JACS	75	(1953)	1253
		665-5000	L	Bond freq	Zeiss	JACS	75	(1953)	897
		350-4000	L,Sol	OH bands	Stuart	JCP	24	(1956)	559
		-	-	Assign	Michinori	BCSJ	32	(1959)	950
$C_5H_{12}O$	Methyl isobutyl ether	1-2.5μ	L	Spec	Smith	JACS	48	(1926)	1512
		2750-3000	Sol	Freq, Spec	Pozefsky	AC	23	(1951)	1611
$C_5H_{12}O$	Methyl n-butyl ether	1-2.5μ	L	Spec	Smith	JACS	48	(1926)	1512
		2594-2689	Sol	H bond	Searles	JACS	73	(1951)	3704
		-	Sol	Band freq, H bond	Searles	JACS	75	(1953)	71
$C_5H_{12}O$	Methyl s-butyl ether	1-2.5μ	L	Spec	Smith	JACS	48	(1926)	1512
$C_5H_{12}O$	Methyl t-butyl ether	1-2.5μ	L	Spec	Smith	JACS	48	(1926)	1512
		665-5000	L,G	Freq	Ory	AC	32	(1960)	509
$C_5H_{12}O$	1-Pentanol	-	-	Bond freq, Absorption coeff	Bonino	TFS	25	(1929)	876
		-	L	Pressure effect	Collins	PR	36	(1930)	305
		52-152μ	L	Dispers, Iso	Cartwright	PRS	154	(1936)	138
		9000-11000	L	Spec, H bond	Badger	JCP	5	(1937)	839
		.9-4μ	L,Sol	Spec, H bond	Kinsey	JCP	5	(1937)	399
		9.3-13μ	L	Freq	Shearin	JOSA	28	(1938)	61
		-	-	Beer law, Anal	Anderson	AC	20	(1948)	998

		720-750	L	Band freq	Wiberley	AC	22	(1950)	841
		-	L	Ident	Pines	JACS	74	(1952)	4063
		665-5000	L	Bond freq	Zeiss	JACS	75	(1953)	897
		-	L	Reference for -O-OH compar	Mosher	AC	27	(1955)	517
		2.75μ	Sol	Temp dependence of I	Hughes	JCP	24	(1956)	489
		390-4000	L,S,Sol	Spec, Freq, FC	Stuart	JCP	24	(1956)	559
		3570-3700	Sol	Freq, I	Flynn	AJC	12	(1959)	575
$C_5H_{12}O$	2-Pentanol	9000-11000	L	Spec, H bond	Badger	JCP	5	(1937)	839
		-	L	Ident	Pines	JACS	74	(1952)	4063
		650-5000	L	C-O freq	Zeiss	JACS	75	(1953)	897
		-	L	-O-OH comparison	Mosher	AC	27	(1955)	517
		350-4000	L,Sol	OH bands	Stuart	JCP	24	(1956)	559
$C_5H_{12}O$	3-Pentanol	1-15μ	L	H_2 bridging, Spec	Smith	JRNB	46	(1951)	145
		-	L	Ident	Pines	JACS	74	(1952)	4063
		665-5000	L	C-O freq	Zeiss	JACS	75	(1953)	897
		-	L	Ref for O-OH compar	Mosher	AC	27	(1955)	517
		350-4000	L,Sol	OH bands	Stuart	JCP	24	(1956)	559
$C_5H_{12}O_2$	n-Amyl hydroperoxide	5.5-14.5μ	L	Spec, Freq	Mosher	AC	27	(1955)	517
$C_5H_{12}O_2$	t-Amyl hydroperoxide	680-1780	Sol	Spec, Freq	Philpotts	AC	24	(1952)	638
$C_5H_{12}O_2$	Diethoxymethane	1500-3000	Sol	Freq	Briggs	AC	29	(1957)	904
		-	G,L	Freq	Nukada	NKZ	80	(1959)	1112
$C_5H_{12}O_2$	2,2-Dimethoxypropane	-	-	Drying agent for IR samples	Erley	AC	29	(1957)	1564
$C_5H_{12}O_2$	3-Ethoxypropanol-1	2.6-3.2μ	Sol	H bond	Wall	JACS	61	(1939)	2679
$C_5H_{12}O_2$	Isoamyl hydroperoxide	5.5-14.5μ	L	Spec, Freq	Mosher	AC	27	(1955)	517
$C_5H_{12}O_2$	3-Methyl-1,3-butanediol	-	-	Ident	Blomquist	JACS	77	(1955)	78
$C_5H_{12}O_2$	1,5-Pentandiol	2.6-3.2μ	Sol	H bond	Wall	JACS	61	(1939)	2679
		700-1500	L	Ident, Spec	Shay	AC	26	(1954)	652
		25000 Mc/sec	-	Spec	Boullet	CPR	246	(1958)	2364

$C_5H_{12}O_2$	2-Pentyl hydroperoxide	5.5-14.5μ	L	Spec, Freq	Mosher	AC	27 (1955)	517
$C_5H_{12}O_2$	3-Pentyl hydroperoxide	5.5-14.5μ	L	Spec, Freq	Mosher	AC	27 (1955)	517
$C_5H_{12}O_2Si$	Acetoxy-trimethylsilane	0-8μ	Sol	Freq, Spec	Okawara	JACS	82 (1960)	3287
$C_5H_{12}O_3$	t-Butoxymethyl hydroperoxide	-	-	Freq	Milas	JACS	77 (1955)	2536
$C_5H_{12}O_3$	1,3-Dimethoxypropan-2-ol	3μ	Sol	Freq, H bond	Flett	SA	10 (1958)	21
$C_5H_{12}O_3$	1-Hydroxy-1-peroxy-isopropylethane	5-15μ	Sol	Spec	Minkoff	PRS	224 (1954)	176
$C_5H_{12}O_3$	Methyltrimethoxymethane	-	Sol	Spec, Freq	Nukada	NKZ	81 (1960)	1028
$C_5H_{12}O_3$	Trimethylolethane	700-1500	S	Ident, Spec	Shay	AC	26 (1954)	652
$C_5H_{12}O_4$	Pentaerythritol	1-2.5μ	-	Spec, Assign	Ellis	JCP	7 (1939)	862
		1.7μ	S	Pleochroism, Fermi resonance	Ellis	PR	55 (1939)	1098
		-	-	Selection rule	Halford	JCP	14 (1946)	8
		800-1200	Sol	Christiansen effect	Price	JCP	16 (1948)	1157
		-	-	H bond, Dist vs freq	Rundle	JCP	20 (1952)	1487
		700-1500	S	Spec, Ident	Shay	AC	26 (1954)	652
		-	S	H bond	Pimental	JCP	24 (1956)	639
		2.5-3.5μ	-	Steroid molecule	Kabasakalian	AC	31 (1959)	375
$C_5H_{12}O_5$	D-Arabitol	2.5-3.5μ	-	No of OH groups in steroid molecule	Kabasakalian	AC	31 (1959)	375
$C_5H_{12}O_5$	Xylitol	8-15μ	S	Spec	Kuhn	AC	22 (1950)	276
$C_5H_{12}S$	Isoamyl mercaptan	0.6-2.8μ	L	S-H study	Ellis	JACS	50 (1928)	2113
		-	-	Freq, IR	Sheppard	TFS	46 (1950)	429
		2800-3000	Sol	Freq, Spec	Pozefsky	AC	23 (1951)	1611
$C_5H_{12}S$	n-Amyl mercaptan	2800-3000	Sol	Freq, Spec	Pozefsky	AC	23 (1951)	1611
		2-25μ	L	Spec	Haines	JPC	58 (1954)	270
$C_5H_{12}S$	3,3-Dimethyl-2-thiabutane	200-1500	-	Freq, Assign, Struct	Scott	JACS	80 (1958)	3554
$C_5H_{12}S$	tert-Amyl mercaptan	-	-	Freq	Sheppard	TFS	46 (1950)	429

$C_5H_{12}S$	2-Methyl-3-thiapentane	200-1500	-	Freq, Assign, Struct	Scott	JACS	80	(1958)	3554
$C_5H_{12}S$	2-Thiahexane	2800-3000	Sol	Spec, Freq	Pozefsky	AC	23	(1951)	1611
		-	-	Group freq	Brandt	JCS	-	(1952)	2549
$C_5H_{12}S_2$	3,3-Pentanedithiol	2.5-15μ	L	Spec, not shown, Band freq	Cairns	JACS	74	(1952)	3982
$C_5H_{12}Si$	Cyclopentamethylene-silane	2-35μ	L	Assign, Spec	Oshesky	JACS	79	(1957)	2057
$C_5H_{12}Si$	Silacyclobutane	-	-	Si-H freq	Sommer	JACS	76	(1954)	5002
$C_5H_{12}Si$	Trimethylvinylsilane	3-15μ	L	Spec	Kozima	BCSJ	27	(1954)	287
$C_5H_{13}ClNOPS$	Isopropyldimethyl-phosphoramidochlorido-thionate	740-1500	Sol	Assign	McIvor	CJC	37	(1959)	869
$C_5H_{13}ClNOPS$	n-Propyldimethyl-phosphoramidochlorido-thionate	740-1500	Sol	Assign	McIvor	CJC	37	(1959)	869
$C_5H_{13}FNO_2P$	Dimethylaminoethoxy-methylphosphonyl fluoride	2-15μ	S	Spec, Struct	Larsson	ACS	12	(1958)	587
$C_5H_{13}N$	n-Amylamine	-	-	Effect as solvent	Gordy	JCP	7	(1939)	93
		2-15μ	L,G	Freq, Assign, NCA	Stewart	JCP	30	(1959)	1259
$C_5H_{13}N$	Isoamylamine	1-12μ	L	Spec	Bell	JACS	49	(1927)	1837
		.6-2.4μ	L	N-H study	Ellis	JACS	50	(1928)	685
		2-15μ	L	Freq assign	Stewart	JCP	30	(1959)	1259
$C_5H_{13}NO$	3-Methyl-2-amino-butanol-3	-	Sol	Group freq, H bond	Bergmann	JACS	75	(1953)	68
$C_5H_{13}NO_2$	N-Methyldiethanolamine	2900-3100	Sol	Freq	Hill	JCS	-	(1958)	760
$C_5H_{13}N_3O_2$	Diethylolguanidine	1250-1750	-	Spec	Barnes	IEC	15	(1943)	659
$C_5H_{13}N_3S$	4-n-Butylthiosemi-carbazide	700-1700	S	Spec, Struct, Config, Assign, Taut	Lieber	CJC	36	(1958)	801

$C_5H_{13}O_2PS$	O,S-Diethyl hydrogenmethyl-thiolphosphate	-	-	Spec, Freq	Popov	ZOK	29 (1959)	1998
$C_5H_{13}O_2PS$	Diethyl methylphosphono-thionate	740-1500	L	Assign	McIvor	CJC	37 (1959)	869
$C_5H_{13}O_3P$	Diethyl methylphosphonate	2-25μ	L	Spec, Struct	Meyrick	JCS	- (1950)	225
		-	-	P=O study	Bell	JACS	76 (1954)	5185
$C_5H_{13}PS_3$	Diethyl methylthiophos-phonate	2-25μ	-	Spec, Struct	Menfree	JOC	22 (1957)	792
$C_5H_{14}N$	N-n-Propylethyle-nediamine	3-6.5μ	Sol	Spec	Woodburn	JOC	17 (1952)	1235
$C_5H_{14}NO_2PS$	Diethyl methylphosphoramido-thionate	-	-	Spec, Freq	Popov	ZOK	29 (1959)	1998
$C_5H_{14}OSi$	Trimethylsilylmethyl methyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_5H_{14}O_2Si$	Methyldiethoxy silane	2050-2250	Sol	Freq, Struct	Smith	SA	15 (1954)	412
$C_5H_{14}O_3Si$	Ethyltrimethoxysilane	600-300	L	Spec, Assign	Richards	JCS	- (1949)	124
$C_5H_{14}Si$	Methyldiethylsilane	2050-2250	Sol	Freq, Struct	Smith	SA	15 (1959)	412
$C_5H_{15}FO_2S$	Monofluoropentamethyl-disilane	-	-	Spec, Assign	Hayashi	NKZ	78 (1957)	1472
$C_5H_{15}NOSi$	Dimethylethoxysilyl-methylamine	-	-	No absorption	Noll	JACS	73 (1951)	3871
$C_5H_{15}NSi$	Dimethyl trimethyl-silylamine	-	-	Spec, Assign	Goubean	ZAUA	303 (1960)	217
$C_5H_{16}OSi_2$	Pentamethyldisiloxane	600-3500	L	Spec, Freq	Sakiyama	BCSJ	31 (1958)	67
$C_5H_{16}O_2Si_2$	bis-(Dimethylhydroxy-silyl)methane	2.5-4μ	S, Sol	Struct, H bond	Kakudo	JCP	21 (1953)	1894
$C_5H_{18}O_2Si_3$	Pentamethyltrisiloxane	600-3500	Sol	Spec, Freq	Sakiyama	BCSJ	31 (1958)	67
$C_5H_{18}O_4Si_4$	Pentamethylcyclotetra-siloxane	600-3500	Sol	Spec, Freq	Sakiyama	BCSJ	31 (1958)	67

$C_5H_{20}O_5Si_5$	Pentamethylcyclopentasiloxane	600-3500	Sol	Spec, Freq	Skiyama	BCSJ	31 (1958)	67
		2050-2250	Sol	Freq	Smith	SA	15 (1959)	412
$C_5D_4O_2$	Pyrone-d_4	-	-	Prod of deuterium exchange study	Lord	AC	26 (1954)	429
C_5D_5N	Pyridine-d_5	250-3500	L	IR, Spec, Assign	Corrsin	JCP	21 (1953)	1170
		-	-	Freq	Anderson	JCP	23 (1955)	1047
$C_5D_9ClO_2$	DL-α-Chlorovaleric acid-d_9	-	Sol,L	Spec, Assign	Takenishi	NKZ	81 (1960)	1382
C_5D_{10}	Cyclopentane-d_{10}	400-3000	L,G	Spec, Assign, Thermo	Miller	JCP	18 (1950)	1519
		-	-	NCA	Labedev	OS	6 (1959)	154
$C_5D_{10}O$	3-Pentanone-d_{10}	1300-3050	Sol	Assign, Spec	Nobin	JACS	75 (1953)	5626
C_5D_{12}	Neopentane-d_{12}	2-25μ	G	IR, Spec, Assign	Shull	JCP	21 (1953)	2024
		400-3000	-	NCA, Assign	Shimizu	BCSJ	30 (1957)	487
C_5BrF_{11}	1-Bromoundecafluoropentane	2-16μ	G	Spec	Hauptschein	JACS	74 (1952)	849
C_5ClF_{11}	1-Chloroundecafluoropentane	2-16μ	G	Spec	Hauptschein	JACS	74 (1952)	849
$C_5Cl_2F_9I$	1,3-Dichloro-1-iodononafluoropentane	-	-	Ident	Haszeldine	JCS	- (1953)	1592
$C_5Cl_2F_9I$	2,4-Dichloro-1-iodononafluoropentane	-	-	Band freq	Haszeldine	JCS	- (1953)	1592
$C_5Cl_3F_9$	1,1,3-Trichlorononafluoropentane	-	-	Band freq	Haszeldine	JCS	- (1953)	1592
C_5Cl_6	Hexachlorocyclopentadiene	6.25-12.55μ	Sol	Freq	McBee	JACS	77 (1955)	4375
		-	-	C=C freq	McBee	JACS	77 (1955)	4379
C_5Cl_6O	Hexachloro-2-cyclopentenone	-	Sol	C=O, C=C freq	McBee	JACS	77 (1955)	559
C_5Cl_6O	Hexachloro-3-cyclo-	-	Sol	C=O, C=C freq	McBee	JACS	77 (1955)	559

C_5Cl_8	Octachlorocyclopentene	-	Sol	C=C freq	McBee	JACS	77 (1955) 559
$C_5F_6O_3$	Perfluoroglutaric anhydride	2-16μ	L	Spec, Freq	Hauptschein	JACS	74 (1952) 4005
C_5F_8	Perfluorocyclopentene	-	G	Freq	Henne	JACS	76 (1954) 610
		1500-1800	G	Freq	Burdon	SA	12 (1958) 139
C_5F_8	Perfluoro-2-pentyne	-	G	Freq	Henne	JACS	76 (1954) 610
C_5F_{10}	Decafluoropentene-1	-	-	$CF = CF_2$ study	Hals	JACS	73 (1951) 4054
		-	-	$C = CF_2$ freq	Lazarte	JACS	75 (1953) 4525
$C_5F_{11}I$	1-Iodoundecafluoropentane	2-16μ	L,G	Spec	Hauptschein	JACS	74 (1952) 849
C_5F_{12}	Dodecafluoropentane	9-13μ	G,L,S	Iso	Szasz	JCP	18 (1950) 1417

C_6 COMPOUNDS

C_6HD_5	Benzene-d_5	-	-	C-H vib, Product rule	Redlich	JCP	7 (1939) 856
		-	-	Struct	Bailey	JCS	- (1946) 222
		-	-	Quant mech	Miller	JCP	14 (1946) 282
		-	-	Sum rule	Bernstein	JCP	21 (1953) 2188
$C_6HBrCl_3F_9$	1-Bromo-1,1,2,3,3,4,5,5,6-nonafluoro-2,4,6-trichlorohexane	3.3-14.54μ	L	I	Haszeldine	JCS	- (1954) 3747
$C_6HCl_3O_2$	2,3,5-Trichloro-1,4-benzoquinone	5-15μ	Sol	Freq	Yates	JACS	78 (1956) 650
$C_6HCl_3O_3$	2-Hydroxy-3,5,6-trichloro-1,4-benzoquinone	2.7-3.0μ	Sol	H bond	Baker	JACS	80 (1958) 5358
C_6HCl_5	Pentachlorobenzene	3.25μ	-	Halogen derivatives of C_6H_6	Brackett	PR	37 (1931) 108
		2-38μ	-	Spec	Plyler	JOSA	40 (1950) 801
		5-6μ	Sol	Spec	Young	AC	23 (1951) 709
		-	-	Analysis	Smiley	AC	26 (1954) 434

		13.9-15.5μ	Sol	Quant analysis	Kiley	AC	29 (1957)	1896
		2-38μ	L	Spec, Freq	Plyler	JRNB	58 (1957)	255
C_6HCl_5O	Pentachlorophenol	10000	Sol	Spec, H bond	Wulf	JCP	8 (1940)	745
		7200-8800	Sol	Spec, H bond	Wulf	JCP	8 (1940)	753
		13.0μ	Sol	Quant analysis	Sheddel	AC	29 (1957)	1553
$C_6HCl_7O_2$	2,3,4,4,5,6,6-Hepta-chlorohexadien-2,5-oic acid	2-25μ	L	Spec, Freq	Pennino	JOC	20 (1955)	530
C_6HF_5	Pentafluorobenzene	2900-3100	G	Freq	Steele	TE	3 (1958)	181
		300-4000	G,L	Freq	Steel	SA	16 (1960)	368
C_6HF_5O	Pentafluorophenol	900-1550	L,G	Freq, H bond	Birchall	JCS	- (1959)	13
C_6HF_7	1H-Heptafluorocyclo-hexa-1,3-diene	1500-1800	G	Freq	Burdon	SA	12 (1958)	139
		2900-3100	G	Freq	Steele	TE	3 (1958)	181
C_6HF_7	1H-Heptafluorocyclo-hexane-1,4-diene	1500-1800	G	Freq	Bourdon	SA	12 (1958)	139
		2900-3100	G	Freq	Steele	TE	3 (1958)	181
C_6HF_7	2H-Heptafluorocyclo-hexane-1,3-diene	1500-1800	G	Freq	Bourdon	SA	12 (1958)	139
		2900-3100	G	Freq	Steele	TE	3 (1958)	181
C_6HF_9	1H-Nonafluorocyclo-hex-1-ene	-	Sol	C=C freq	Roylance	JCS	- (1954)	4426
		1500-1800	G	Freq	Bourdon	SA	12 (1958)	139
		2900-3100	G	Freq	Steele	TE	3 (1958)	181
C_6HF_9	3H-Nonafluorocyclo-hexene	1500-1800	G	Freq	Bourdon	SA	12 (1958)	139
		2900-3100	G	Freq	Steele	TE	3 (1958)	181
C_6HF_9	4H-Nonafluorocyclo-hexene	1500-1800	G	Freq	Bourdon	SA	12 (1958)	139
		2900-3100	G	Freq	Steele	TE	3 (1958)	181
$C_6HF_{10}I$	1,1,1,4,4,5,5,6,6,6-Decafluoro-2-iodohex-2-ene	-	-	Freq	Leedham	JCS	- (1954)	1634
C_6HF_{11}	Undecafluorocyclohexane	2900-3100	G	Freq	Steele	TE	3 (1958)	181
$C_6HF_{11}O_2$	Perfluorocaproic acid	0.9-3μ	Sol	Spec	Holman	AC	28 (1956)	1533

C_6H_2	Triacetylene	-	-	FC, Bond lengths	Longuet	TFS	48 (1952)	1077
$C_6H_2D_3F$	Fluorobenzene-2,4,6-d_3	17500-28000 KMc/sec	-	Spec, Mol consts	Bak	JCP	26 (1957)	134
$C_6H_2D_4$	m-Benzene-d_4	-	-	Product rule, C-H vib	Redlich	JCP	7 (1939)	856
		-	-	Quant mech, Vib analysis	Miller	JCP	14 (1946)	282
$C_6H_2D_4$	o-Benzene-d_4	-	-	C-H vib, Product rule	Redlich	JCP	7 (1939)	856
		-	-	Quant mech, Vib analysis	Miller	JCP	14 (1946)	282
$C_6H_2D_4$	p-Benzene-d_4	-	-	Product rule, C-H vib	Redlich	JCP	7 (1939)	856
		-	-	Thermo, Freq	Pitzer	JACS	65 (1943)	803
		-	-	Struct	Bailey	JCS	- (1946)	222
		370-3200	G	Struct	Bailey	JCS	- (1946)	288
		-	-	Inactive fundamentals	Herzfeld	J&S	- (1946)	316
		-	-	Quant mech	Miller	JCP	14 (1946)	282
		2-25 μ	G	Spec, Assign	Miller	JCP	14 (1946)	292
		-	-	Vib analysis	Halverson	RMP	19 (1947)	87
		500-650	G	Freq, I	Tiers	JCP	20 (1952)	761
		-	-	Sum rule	Bernstein	JCP	21 (1953)	2188
		-	-	Freq	Anderson	JCP	23 (1955)	1047
$C_6H_2D_8O_4$	Adipic acid-d_8	400-4000	S	Assign, Struct	Susi	SA	15 (1959)	1063
$C_6H_2Br_2N_2O$	2-Diazo-3,5-dibromo-1-oxobenzene	-	S	Freq	LeFevre	JCS	- (1954)	4686
$C_6H_2Br_2N_2O_4$	2,3-Dinitro-1,4-dibromobenzene	2-16 μ	S	Spec, Freq	Hammond	JACS	75 (1953)	1388
$C_6H_2Br_2N_2O_4$	2,5-Dinitro-1,4-dibromobenzene	2-16 μ	S	Spec, Freq	Hammond	JACS	75 (1953)	1388
$C_6H_2Br_2N_2O_4$	2,6-Dinitro-1,4-dibromobenzene	2-16 μ	S	Spec, Freq	Hammond	JACS	75 (1953)	1388
$C_6H_2Br_3NO$	2,4,6-Tribromonitrosobenzene	-	-	Struct, Freq	Luttke	ZE	61 (1957)	976
$C_6H_2Br_4$	1,2,4,5-Tetrabromobenzene	5-6 μ	-	Spec	Young	AC	23 (1951)	709
$C_6H_2Br_4O_2$	Tetrabromocatechol	6700-7100	Sol	OH band freq	Wulf	JACS	58 (1936)	2287
		7000	-	Absorption band	Wulf	JCP	6 (1938)	702

$C_6H_2Cl_2N_2O_4$	2,3-Dinitro-1,4-dichloro-benzene	2-16 μ	Sol	Spec, Freq	Hammond	JACS	75	(1953)	1388
$C_6H_2Cl_2N_2O_4$	2,5-Dinitro-1,4-dichloro-benzene	2-16 μ	Sol	Spec, Freq	Hammond	JACS	75	(1953)	1388
$C_6H_2Cl_2N_2O_4$	2,6-Dinitro-1,4-dichloro-benzene	2-16 μ	Sol	Spec, Freq	Hammond	JACS	75	(1953)	1388
$C_6H_2Cl_2O_2$	2,3-Dichloro-p-benzo-quinone	5-15 μ	S,Sol	Effect of substitution	Yates	JACS	78	(1956)	650
$C_6H_2Cl_2O_2$	2,5-Dichloro-p-benzo-quinone	5-15 μ	S,Sol	Effect of substitution	Yates	JACS	78	(1956)	650
$C_6H_2Cl_2O_2$	2,6-Dichloro-p-benzo-quinone	5-15 μ	S,Sol	Effect of substitution	Yates	JACS	78	(1956)	650
$C_6H_2Cl_2O_4$	3,6-Dichloro-2,5-dihycroxy-p-benzoquinone	2.7-3.0 μ	Sol	H bond, Freq	Baker	JACS	80	(1958)	5358
$C_6H_2Cl_4$	1,2,3,4-Tetrachlorobenzene	2-38 μ	-	Spec	Plyler	JOSA	40	(1950)	801
		5-6 μ	-	Spec	Young	AC	23	(1951)	709
		-	-	Ident	Kolka	JACS	76	(1954)	3940
		-	-	Analysis	Smiley	AC	26	(1954)	434
		8.50 μ	Sol	Quant analysis	Hudson	AC	29	(1957)	1717
		7.7-10.2 μ	Sol	Quant analysis	Kiley	AC	29	(1957)	1896
		2-38 μ	Sol,S	Spec, Freq	Plyler	JRNB	58	(1957)	255
$C_6H_2Cl_4$	1,2,3,5-Tetrachlorobenzene	2-38 μ	-	Spec	Plyler	JOSA	40	(1950)	801
		5-6 μ	Sol	Spec	Young	AC	23	(1951)	709
		12.47 μ	Sol	Quant analysis	Hudson	AC	29	(1957)	1717
		11.0-13.9 μ	Sol	Quant analysis	Kiley	AC	29	(1957)	1896
		2-38 μ	Sol,S	Spec, Freq	Plyler	JRNB	58	(1957)	255
$C_6H_2Cl_4$	1,2,4,5-Tetrachlorobenzene	2-38 μ	-	Spec	Plyler	JOSA	40	(1950)	801
		5-6 μ	Sol	Spec	Young	AC	23	(1951)	709
		-	-	Analysis	Smiley	AC	26	(1954)	434
		-	-	Vib analysis	Matubara	JCP	24	(1956)	595
		7.58 μ	Sol	Quant analysis	Hudson	AC	29	(1957)	1717
		7.7-10.2 μ	Sol	Quant analysis	Kiley	AC	29	(1957)	1896
		2-38 μ	Sol	Spec, Freq	Plyler	JRNB	58	(1957)	255

		-	-	Spec, Assign	Sacki	CPR	249 (1959) 2307
$C_6H_2Cl_4O$	2,3,4,6-Tetrachlorophenol	5-6μ	Sol	Spec	Young	AC	23 (1951) 709
		13.3μ	Sol	Quant analysis	Scheddel	AC	29 (1957) 1553
		3500-3800	Sol	Freq	Puttnam	JCS	- (1960) 5100
$C_6H_2Cl_4O$	2,3,5,6-Tetrachlorophenol	5-6μ	Sol	Spec	Young	AC	23 (1951) 709
$C_6H_2F_4$	1,2,4,5-Tetrafluoro-benzene	2-22μ	G,L	IR, Assign, Spec	Ferguson	JCP	21 (1953) 1464
		-	-	NCA, FC, Freq	Steele	TFS	56 (1960) 8
		400-1500	G	I	Steele	TFS	56 (1960) 177
		-	-	Partial reassign	Steel	SA	16 (1960) 368
$C_6H_2F_6$	1H:2H-Hexafluoro-cyclohexa-1,3-diene	1500-1800	G	Freq	Burdon	SA	12 (1958) 139
$C_6H_2F_6$	1H:2H-Hexafluoro-cyclohexa-1,4-diene	1500-1800	G	Freq	Burdon	SA	12 (1958) 139
$C_6H_2F_6$	1H:4H-Hexafluoro-cyclohexa-1,4-diene	1500-1800	G	Freq	Burdon	SA	12 (1958) 139
		2900-3100	G	Freq	Steele	TE	3 (1958) 181
$C_6H_2F_6$	1H:5H-Hexafluoro-cyclohexa-1,4-diene	1500-1800	G	Freq	Burdon	SA	12 (1958) 139
		2900-3100	G	Freq	Steele	TE	3 (1958) 181
$C_6H_2F_8$	1H:2H-Octafluoro-cyclohexene	1500-1800	G	Freq	Burdon	SA	12 (1958) 139
		2900-3100	G	Absorption freq	Steele	TE	3 (1958) 181
$C_6H_2F_8$	1H:4H-Octafluoro-cyclohexene	1500-1800	G	Freq	Burdon	SA	12 (1958) 139
		2900-3100	G	Absorption freq	Steele	TE	3 (1958) 181
$C_6H_2F_8$	1H:4H-Octafluoro-cyclohexene	1500-1800	G	Freq	Burdon	SA	12 (1958) 139
$C_6H_2F_8$	1H:5H-Octafluoro-cyclohexene	1500-1800	G	Freq	Burdon	SA	12 (1958) 139
		2900-3100	G	Absorption freq	Steele	TE	3 (1958) 181
$C_6H_2F_8$	3H:4H Octafluoro-cyclohexene	1500-1800	G	Freq	Burdon	SA	12 (1958) 139
		2900-3100	G	Absorption freq	Steele	TE	3 (1958) 181
$C_6H_2F_8$	4H:5H-Octafluoro-cyclohexene	1500-1800	G	Freq	Burdon	SA	12 (1958) 139
		2900-3100	G	Absorption freq	Steele	TE	3 (1958) 181
$C_6H_2F_{10}$	1H:2H-Decafluoro-cyclohexane	2900-3100	G	Freq	Steele	TE	3 (1958) 181

$C_6H_2F_{10}$	1H:3H-Decafluoro-cyclohexane	2900-3100	G	Freq	Steele	TE	3 (1958)	181
$C_6H_2F_{10}$	1H:4H-Decafluoro-cyclohexane	2900-3100	G	Freq	Steele	TE	3 (1958)	181
$C_6H_2F_{10}O_2$	2,2,2-Trifluoroethyl heptafluorobutyrate	2-16μ	L	Spec, Freq	Rappaport	JACS	75 (1953)	2695
		-	L	C=O freq	Filler	JACS	76 (1954)	1376
$C_6H_2F_{12}O$	1,1,1,2,2,3,3,5,5,6,6,6-Dodecafluorohexanol-4	-	Sol	Freq, H bond	Haszeldine	JCS	- (1953)	1757
$C_6H_2N_2O_3$	Pyrazine-2,3-dicarboxylic anhydride	1500-2000	S	Spec, Freq	Solomons	JACS	75 (1953)	679
$C_6H_2N_4O_6$	4,6-Dinitrobenzfuroxan	4.8-7.5μ	-	Spec, Freq	Gaughran	JACS	76 (1954)	2233
$C_6H_2N_6O_4$	6-Azido-5-nitrobenzfuroxan	-	-	Freq	Gaughran	JACS	76 (1954)	2233
$C_6H_2N_6O_{10}$	Pentanitroaniline	3-15μ	S	Spec	Lothrop	JACS	73 (1951)	3581
$C_6H_3D_3$	1,2,3-Benzene-d_3	-	-	Product rule, vib anal	Redlich	JCP	7 (1939)	856
		-	-	Quant mech, Vib anal	Miller	JCP	14 (1946)	282
$C_6H_3D_3$	1,3,5-Benzene-d_3	500-1600	G	IR, Spec	Ingold	PRS	169 (1938)	149
		-	-	Product rule, Vib anal	Redlich	JCP	7 (1939)	856
		-	-	Thermo, Freq	Pitzer	JACS	65 (1943)	803
		-	-	Struct	Bailey	JCS	- (1946)	222
		380-3200	G	Struct	Bailey	JCS	- (1946)	255
		-	-	Inactive fundamentals	Herzfeld	JCS	- (1946)	316
		-	-	Quant mech, Vib anal	Miller	JCP	14 (1946)	282
		740-890	G	Spec	Weldon	JCS	- (1946)	244
		-	-	Vib analysis	Halverson	RMP	19 (1947)	87
		500-650	G	Freq, I	Tiers	JCP	20 (1952)	761
		-	-	Sum rule	Bernstein	JCP	21 (1953)	2188
		-	-	Assign	Danti	SA	13 (1958)	180
		-	-	Vibrations, I	Kakiyuchi	NKZ	80 (1959)	21
$C_6H_3BrCl_2$	2-Bromo-4,6-dichlorophenol	2.75-2.95μ	Sol	H bond	Baker	JACS	81 (1959)	5904
		3500-3800	Sol	Freq	Puttnam	JCS	- (1960)	5100

$C_6H_3BrN_2O_4$	2,6-Dinitrobromo-benzene	2-16 μ	S	Proved absent from mixtures	Hammond	JACS	75	(1953)	1388
$C_6H_3Br_2FO$	2,6-Dibromo-4-fluoro-phenol	3500-3800	Sol	Freq	Puttnam	JCS	-	(1960)	5100
$C_6H_3Br_2FO$	4,6-Dibromo-2-fluoro-phenol	2.75-2.95 μ	Sol	H bond	Baker	JACS	81	(1959)	5904
		3500-3800	Sol	Freq	Puttnam	JCS	-	(1960)	5100
$C_6H_3Br_2IO$	2,4-Dibromo-6-iodo-phenol	2.75-2.95 μ	Sol	H bond	Baker	JACS	81	(1959)	5904
$C_6H_3Br_2IO$	4,6-Dibromo-2-iodo-phenol	3500-3800	Sol	Freq	Puttnam	JCS	-	(1960)	5100
$C_6H_3Br_2NO_2$	2,5-Dibromonitrobenzene	2-16 μ	Sol	Spec, Freq	Hammond	JACS	75	(1953)	1388
$C_6H_3Br_3$	1,2,4-Tribromobenzene	9-14 μ	Sol	Freq, I	Cole	TFS	46	(1950)	103
		5-6 μ	-	Spec	Young	AC	23	(1951)	709
$C_6H_3Br_3$	1,3,5-Tribromobenzene	9-14 μ	Sol	Freq, I	Cole	TFS	46	(1950)	103
		700-1000	S, Sol	Out of plane CH deformation	Bellamy	JCS	-	(1955)	2818
$C_6H_3Br_3O$	2,4,6-Tribromophenol	6700-7000	Sol	OH band	Wulf	JACS	58	(1936)	2287
		10000	Sol	Spec, H bond	Wulf	JCP	8	(1940)	745
		7200-8800	Sol	Spec, H bond	Wulf	JCP	8	(1940)	753
		2.84 μ	Sol	Analysis	Simard	AC	23	(1951)	1384
		3100-3550	Sol	H bond	Lund	ACS	12	(1958)	298
		3500-3800	Sol	Freq, Hammett consts	Puttnam	JCS	-	(1960)	5100
$C_6H_3ClN_2O$	5-Chlorobenzfurazan	6-7 μ	-	Spec, Freq	Gaughran	JACS	76	(1954)	2233
$C_6H_3ClN_2O_2$	5-Chlorobenzfuroxan	6-7 μ	-	Spec, Freq	Gaughran	JACS	76	(1954)	2233
$C_6H_3ClN_4$	2-Chloropteridine	716-2000	S	I	Mason	JCS	-	(1955)	2336
$C_6H_3ClN_4$	4-Chloropteridine	678-3500	S	Spec, Assign, I	Mason	JCS	-	(1955)	2336
$C_6H_3ClO_2$	2-Chloro-p-benzoquinone	5-15 μ	S, Sol	Effect of substitution	Yates	JACS	78	(1956)	650
$C_6H_3Cl_2FO$	2-Fluoro-4,6-dichloro-phenol	2.75-2.95 μ	Sol	H bond	Baker	JACS	81	(1959)	5904
		3500-3800	Sol	Freq, Hammett consts	Puttnam	JCS	-	(1960)	5100

$C_6H_3Cl_2IO$	2,4-Dichloro-6-iodophenol	2.75-2.95 μ	Sol	H bond	Baker	JACS	81	(1959)	5904
$C_6H_3Cl_2IO$	4,6-Dichloro-2-iodophenol	3500-3800	Sol	Freq, Hammett const	Puttnam	JCS	-	(1960)	5100
$C_6H_3Cl_2NO$	3,5-Dichloronitroso-benzene	-	-	Freq	Luttke	ZE	61	(1957)	976
$C_6H_3Cl_2NO_2$	2,5-Dichloronitro-benzene	2-16 μ	Sol	Spec, Freq	Hammond	JACS	75	(1953)	1388
$C_6H_3Cl_3$	1,2,3-Trichlorobenzene	-	-	Vibrating mechanical models	Murray	JCP	3	(1935)	180
		2-38 μ	-	Spec	Plyler	JOSA	40	(1950)	801
		5-6 μ	-	Spec	Young	AC	23	(1951)	709
		-	Sol	Ident	Kolka	JACS	76	(1954)	3940
		-	-	Analysis	Smiley	AC	26	(1954)	434
		8.64 μ	Sol	Quant analysis	Hudson	AC	29	(1957)	1717
		7.7-10.2 μ	Sol	Quant analysis	Kiley	AC	29	(1957)	1896
		2-38 μ	Sol	Spec, Assign	Plyler	JRNB	58	(1957)	255
$C_6H_3Cl_3$	1,2,4-Trichlorobenzene	3.25 μ	-	Halogen derivatives of C_6H_6	Brackett	PR	37	(1931)	108
		-	-	Vibrating mechanical model	Murray	JCP	3	(1935)	180
		12-14 μ	Sol	Freq, I	Bell	PRS	192	(1948)	498
		22-39 μ	L	Freq	Plyler	JCP	17	(1949)	218
		9-14 μ	Sol	Freq, I	Cole	TFS	46	(1950)	103
		2-38 μ	-	Spec	Plyler	JOSA	40	(1950)	801
		14-24 μ	L	Spec	Plyler	JRNB	45	(1950)	462
		-	-	Ident, Purity of sample	Calingaert	JACS	73	(1951)	2359
		5-6 μ	-	Spec	Young	AC	23	(1951)	709
		1.6-2.5 μ	L	Spec, Freq	Acquista	JRNB	49	(1952)	13
		-	Sol	Ident	Kolka	JACS	76	(1954)	3940
		-	Sol	Analysis	Kovacic	JACS	76	(1954)	5491
		-	-	Analysis	Smiley	AC	26	(1954)	434
		9.14 μ	Sol	Quant analysis	Hudson	AC	29	(1957)	1717
		7.7-13.9 μ	Sol	Quant analysis	Kiley	AC	29	(1957)	1896
		2-38 μ	Sol	Spec, Freq	Plyler	JRNB	58	(1957)	255
		600-1800	L	Spec	Deb	IJP	34	(1960)	554
$C_6H_3Cl_3$	1,3,5-Trichlorobenzene	3.25 μ	-	Halogen derivatives of	Brackett	PR	37	(1931)	108

		-	-	Vibrating mech model	Murray	JCP	3	(1935)	180
		9-14μ	Sol	Freq, I	Cole	TFS	46	(1950)	103
		2-38μ	-	Spec	Plyler	JOSA	40	(1950)	801
		5-6μ	-	Spec	Young	AC	23	(1951)	709
		-	-	Ident	Baker	AC	25	(1953)	1457
		700-1000	S, Sol	Out of plane CH deformation	Bellamy	JCS	-	(1955)	2818
		11.0-13.9μ	Sol	Quant analysis	Kiley	AC	29	(1957)	1896
		2-38μ	Sol	Spec, Freq	Plyler	JRNB	58	(1957)	255
		-	-	Spec, Assign	Saeki	CPR	249	(1959)	2307
		400-5000	G	Assign	Saeki	BCSJ	33	(1960)	1024
$C_6H_3Cl_3O$	2,3,6-Trichlorophenol	5-6μ	-	Spec	Young	AC	23	(1951)	709
$C_6H_3Cl_3O$	2,4,5-Trichlorophenol	5-6μ	-	Spec	Young	AC	23	(1951)	709
		2.7-3.0μ	Sol	H bond, Freq	Baker	JACS	80	(1958)	8358
$C_6H_3Cl_3O$	2,4,6-Trichlorophenol	6700-7000	Sol	Spec	Wulf	JACS	57	(1935)	1464
		-	Sol	Struct, Spec	Pauling	JACS	58	(1936)	94
		10000	Sol	Spec, H bond	Wulf	JCP	8	(1940)	745
		7200-8800	Sol	Spec, H bond	Wulf	JCP	8	(1940)	753
		5-6μ	Sol	Spec	Young	AC	23	(1951)	709
		13.7μ	Sol	Quant analysis	Scheddel	AC	29	(1957)	1553
		3100-3550	Sol	H bond	Lund	ACS	12	(1958)	298
		3500-3800	Sol	Freq	Puttnam	JCS	-	(1960)	5100
$C_6H_3Cl_9O_3$	α-Parachloral	3600-650	S, Sol	Spec, Freq, Assign, Config	Novak	CJC	36	(1958)	1116
$C_6H_3Cl_9O_3$	β-Parachloral	3600-650	S, Sol	Spec, Freq, Assign, Config	Novak	CJC	36	(1958)	1116
$C_6H_3FI_2O$	2-Fluoro-4,6-diiodophenol	2.75-2.95μ	Sol	H bond	Baker	JACS	81	(1959)	5904
		3500-3800	Sol	Freq, Hammett const	Puttnam	JCS	-	(1960)	5100
$C_6H_3F_3$	1,2,4-Trifluorobenzene	2-38μ	L	Spec, Assign	Ferguson	JCP	21	(1953)	1727
$C_6H_3F_3$	1,3,5-Trifluorobenzene	-	-	Vibrations	Ferguson	BAPS	27	(1952)	10
		-	-	Vibrations	Ferguson	PR	89	(1953)	895
		-	-	Vibrations	Ferguson	JCP	21	(1953)	886
		700-1000	S, Sol	CH deformation	Bellamy	JCS	-	(1955)	2818
$C_6H_3F_3N_2O_4S$	2,4-Dinitrophenylsulfur trifluoride	-	S	Freq	Chamberlain	JACS	77	(1955)	1041

$C_6H_3F_7$	1H:2H,4H-Heptafluoro-cyclohexene	1500-1800	G	Freq	Burdon	SA	12 (1958)	139
$C_6H_3F_7$	1H,4H:5H-Heptafluoro-cyclohexene	1500-1800	G	Freq	Burdon	SA	12 (1958)	139
$C_6H_3F_7O_2$	Vinyl α,β,γ-heptafluoro-butyrate	-	Sol	Freq, Spec	Potts	SA	15 (1959)	679
$C_6H_3F_9$	1H:2H/4H-Nonafluoro-cyclohexane a:e/a	2900-3100	G	Freq	Steele	TE	3 (1958)	181
$C_6H_3F_9$	1H:2H:4H/-Nonafluoro-cyclohexane e:a:a/	2900-3100	G	Freq	Steele	TE	3 (1958)	181
$C_6H_3F_9$	1H/2H:4H-Nonafluoro-cyclohexane a/a:a	2900-3100	G	Freq	Steele	TE	3 (1958)	181
$C_6H_3F_9$	1H:4H/2H-Nonafluoro-cyclohexane a:e/a	2900-3100	G	Freq	Steele	TE	3 (1958)	181
$C_6H_3I_3O$	2,4,6-Triiodophenol	6600-7000	Sol	OH-band	Wulf	JACS	58 (1936)	2287
		10000	Sol	Spec, H bond	Wulf	JCP	8 (1940)	745
		7200-8800	Sol	Spec, H bond	Wulf	JCP	8 (1940)	753
$C_6H_3NO_2S_2$	2-Aza-5-carboxy-1,6-dithia [3.3.0] bicycloacta-2,4,7-triene	-	S	Freq	Jones	JACS	77 (1955)	4069
$C_6H_3N_3O_3$	2-Diazo-4-nitro-1-oxobenzene	-	S	Freq	LeFevre	JCS	- (1954)	4686
$C_6H_3N_3O_3$	4-Diazo-2-nitro-1-oxobenzene	-	S	Freq	LeFevre	JCS	- (1954)	4686
$C_6H_3N_3O_3$	4-Nitrobenzfurazan	6-7 μ	-	Spec, Freq	Gaughran	JACS	76 (1954)	2233
$C_6H_3N_3O_4$	4-Nitrobenzfuroxan	6-7 μ	-	Spec, Freq	Gaughran	JACS	76 (1954)	2233
$C_6H_3N_3O_6$	1,2,4-Trinitrobenzene	6-8 μ	Sol	Freq, I	Conduit	JCS	- (1959)	3273
$C_6H_3N_3O_6$	1,3,5-Trinitrobenzene	700-1400	S	Spec, Struct	Burton	JCS	- (1950)	1316

		-	-	Ident	Blatt	JACS	74	(1952)	6273
		700-1000	S, Sol	CH deformation	Bellamy	JCS	-	(1955)	2818
		6-8 μ	Sol	Freq, I	Conduct	JCS	-	(1959)	3273
$C_6H_3N_3O_7$	2,4,6-Trinitrophenol	3000-3500	S, Sol	H bond	Boll	ACS	12	(1958)	1777
		6-8 μ	Sol	Freq, I	Conduit	JCS	-	(1959)	3273
$C_6H_3N_3O_8$	2,4,6-Trinitroresorcinol	600-1700	S	Spec, Freq	Zingaro	JACS	76	(1954)	816
$C_6H_3N_3O_9$	Trinitrophloroglucinol	2-10 μ	-	Spec, Group freq	Dubiel	JOC	19	(1954)	1359
$C_6H_3N_5O_4$	3,5-Dinitrobenzazide	2000-2200	S	Freq	Lieber	JOC	24	(1959)	1014
$C_6H_3N_5O_8$	2,3,4,6-Tetranitro-aniline	3-15 μ	S	Spec	Lothrop	JACS	73	(1951)	3581
$C_6H_3N_7O_3$	Cyameluric acid	2-15 μ	S	Assign	Funkelshtein	OS	6	(1959)	33
C_6H_4DF	Fluorobenzene-3-d_1	17500-28000 MHz	-	Spec, Mol consts	Bak	JCP	26	(1957)	134
C_6H_4DF	Fluorobenzene-4-d_1	500-900	Sol	Freq, I	Tiers	JCP	20	(1952)	761
		17500-28000 MHz	-	Spec, Mol consts	Bak	JCP	26	(1957)	134
$C_6H_4DNO_2$	1,4-Benzoquinone monoxime-d_1	600-1700 KCs	S	Spec, Struct, Assign	Hadzi	JCS	-	(1956)	2725
$C_6H_4DNO_2$	m-Nitrobenzene-d_1	-	L	Freq, I	Dauben	JACS	77	(1955)	2886
$C_6H_4DNO_3$	o-Nitrophenol-d_1	2500-3500	Sol	D bond	Buswell	JCP	5	(1937)	501
$C_6H_4DNO_3$	p-Nitrophenol-d_1	3.5-5.5 μ	Sol	H bond	Bell	JCP	31	(1959)	1158
$C_6H_4DNO_4$	p-Nitrobenzoic acid -o-d_1	650-900	L, Sol	CH out of plane	Yoshida	CPBT	8	(1960)	389
$C_6H_4D_2$	m-Benzene-d_2	-	-	Vibrations, Product rule	Redlich	JCP	7	(1939)	856
		-	-	Vib analysis, Quant mech	Miller	JCP	14	(1946)	282
$C_6H_4D_2$	o-Benzene-d_2	-	-	Vibrations, Product rule	Redlich	JCP	7	(1939)	856
		-	-	Vib anal, Quant mech	Miller	JCP	14	(1946)	282
$C_6H_4D_2$	p-Benzene-d_2	595-597	-	IR, Freq	Ingold	PRS	169	(1938)	149

		-	-	Vibrations, Product rule	Redlich	JCP	7	(1939)	856
		-	-	Thermo, Assign	Pitzer	JACS	65	(1943)	803
		-	-	Product rule	Halverson	JCP	13	(1945)	533
		-	-	Struct	Bailey	JCS	-	(1946)	222
		380-3200	G	Spec, Assign	Bailey	JCS	-	(1946)	288
		-	-	Inactive fundamentals	Herzfeld	JCS	-	(1946)	316
		-	-	Vib anal, Quant mech	Miller	JCP	14	(1946)	282
		2-25μ	G	Spec, Assign	Miller	JCP	14	(1946)	292
		-	-	Vib anal	Halverson	RMP	19	(1947)	87
		-	-	Assign	Mair	JCP	17	(1949)	1236
		500-900	G	Freq, I	Tiers	JCP	20	(1952)	761
		-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
		-	-	Freq	Anderson	JCP	23	(1955)	1047
		1500-2000	G	I	Dunstan	JCS	-	(1960)	5221
C_6H_4BrCl	m-Bromochlorobenzene	8.5-14μ	Sol	Spec	Ferguson	AC	23	(1951)	1510
		-	Sol	Analysis	Ferguson	JACS	76	(1954)	1250
		1000-3200	L	Spec, Assign	Krishnamachari	CS	26	(1957)	144
C_6H_4BrCl	o-Bromochlorobenzene	5-8μ	-	C_6H_6 derivatives	Depaigne	JPR	7	(1946)	33
		8.5-14μ	Sol	Spec, Anal	Ferguson	AC	23	(1951)	1510
		-	-	Ident	Haszeldine	JCS	-	(1952)	993
		-	Sol	Anal	Ferguson	JACS	76	(1954)	1250
		1000-3500	L	Spec, Assign	Krishnamachari	CS	26	(1957)	144
C_6H_4BrCl	p-Bromochlorobenzene	5-8μ	-	C_6H_6 derivatives	Depaigne	JPR	7	(1946)	33
		9-14μ	Sol	Freq, I	Cole	TFS	46	(1950)	103
		8.5-14μ	Sol	Spec, Anal	Ferguson	AC	23	(1951)	1510
		-	Sol	Analysis	Ferguson	JACS	76	(1954)	1250
		-	Sol	Analysis	Kavacie	JACS	76	(1954)	5491
		12-15μ	S	Freq	Kross	JACS	78	(1956)	1332
		10.20μ	Sol	Band I	Randle	TFS	52	(1956)	9
		-	S, Sol	Assign	Stojiljkovic	SA	12	(1958)	57
C_6H_4BrF	m-Bromofluorobenzene	-	Sol	Anal	Ferguson	JACS	76	(1954)	1250
		1000-3200	L, G	Spec, Assign	Krishnamachari	CS	26	(1957)	144
C_6H_4BrF	o-Bromofluorobenzene	-	Sol	Analysis	Ferguson	JACS	76	(1954)	1250
		3-15μ	L	Spec	Krishnamachari	CS	25	(1956)	355
		1000-3200	L, G	Spec, Assign	Krishnamachari	CS	26	(1957)	144
C_6H_4BrF	p-Bromofluorobenzene	-	Sol	Anal	Ferguson	JACS	76	(1954)	1250
		2-38μ	L, G	IR, Assign	Narsimham	JCP	24	(1956)	420

C_6H_4BrI	p-Bromoiodobenzene	9-14 μ	Sol	Freq, I	Cole	TFS	46	(1950)	103
		822-1533	S	Assign, Freq	Nakamoto	JACS	78	(1956)	1113
		1020	Sol	I	Randle	TFS	52	(1956)	9
		-	S, Sol	Assign	Stojiljkovic	SA	12	(1958)	57
$C_6H_4BrNO_2$	m-Bromonitrobenzene	700-1700	Sol	I	Katritzky	JCS	-	(1959)	2058
$C_6H_4BrNO_2$	o-Bromonitrobenzene	650-3600	-	Spec, Assign	Francel	JACS	74	(1952)	1265
		10.01-14 μ	Sol	Quant analysis	Jackson	JACS	77	(1955)	5625
		800-1600	Sol	I, Ext coefficient	Katritzky	JCS	-	(1959)	3670
$C_6H_4BrNO_2$	p-Bromonitrobenzene	10.01-14 μ	Sol	Quant analysis	Jackson	JACS	77	(1955)	5625
		12-15 μ	S, Sol	CH out of plane bending freq shift	Kross	JACS	78	(1956)	1332
		1300-1600	S, Sol	Struct	Kross	JACS	78	(1956)	1332
		700-1700	Sol	Assign, Freq	Katritzky	JCS	-	(1959)	2051
$C_6H_4BrNO_2$	2-Bromo-p-benzoquinone -4-oxime	700-3500	S	Struct	Philbrook	JOC	24	(1959)	568
$C_6H_4BrN_3$	5-Bromobenzotriazole	650-1000	-	Freq	Binder	JACS	81	(1959)	3608
		-	S	H bond, Freq	O'Sullivan	JCS	-	(1960)	3653
$C_6H_4BrO_2B$	o-Phenylenebromo-boronate	6-14 μ	L, S	Freq, Struct	Blau	JCS	-	(1960)	380
$C_6H_4Br_2$	m-Dibromobenzene	52-152 μ	L	Ext coefficient	Errera	TFS	33	(1937)	120
		-	Sol	Analysis	Ferguson	JACS	76	(1954)	1250
		700-1700	Sol	I	Katritzky	JCS	-	(1959)	2058
$C_6H_4Br_2$	o-Dibromobenzene	52-152 μ	L	Ext coefficient	Errera	TFS	33	(1937)	120
		5-6 μ	L	Spec	Young	AC	23	(1951)	709
		-	Sol	Analysis	Ferguson	JACS	76	(1954)	1250
		-	Sol	Analysis	Kovacic	JACS	76	(1954)	5491
		800-1600	-	I, Ext coefficient	Katritzky	JCS	-	(1959)	3670
$C_6H_4Br_2$	p-Dibromobenzene	3.25 μ	-	C_6H_6 derivatives	Brackett	PR	37	(1931)	108
		12-14 μ	Sol	Freq, I	Bell	PRS	192	(1948)	498
		700-1200	-	Christiansen effect	Price	JCP	16	(1948)	1157
		700-1700	L, S	Spec	Richards	PRS	195	(1948)	1
		9-14 μ	Sol	Freq, I	Cole	TFS	46	(1950)	103
		5-6 μ	Sol	Spec	Young	AC	23	(1951)	709
		-	Sol	Analysis	Ferguson	JACS	76	(1954)	1250

		700-1000	S,Sol	Out of plane CH deformation	Bellamy	JCS	- (1955) 2818
		12-15 μ	S,Sol	C-H out of plane bending vib, Freq	Kross	JACS	78 (1956) 1332
		1020	Sol	I	Randle	TFS	52 (1956) 9
		400-3300	S,Sol	Assign	Stojiljkovic	SA	12 (1958) 47
		700-1700	Sol	Freq, Assign, I	Katritzky	JCS	- (1959) 2051
$C_6H_4Br_2O$	2,4-Dibromophenol	2.7-3.0 μ	Sol	H bond, Freq	Baker	JACS	80 (1958) 5358
		3100-3550	Sol	H bond	Lund	ACS	12 (1958) 298
		3500-3800	Sol	Freq, Hammett consts	Puttnam	JCS	- (1960) 5100
		-	Sol,L	H bond, Freq	Reeves	CJC	38 (1960) 1249
$C_6H_4Br_3ClN_2$	p-Chloroaniline diazoperbromide	1350-3250	-	Freq	Aroney	JCS	- (1955) 1630
$C_6H_4Br_3N$	2,4,6-Tribromoaniline	6400-7100	Sol	Spec	Wulf	JACS	57 (1935) 1464
C_6H_4ClF	m-Chlorofluorobenzene	2-38 μ	G,L	IR, Spec, Assign	Harris	JCP	24 (1956) 1232
		400-3300	S,Sol	Assign	Stojiljkovic	SA	12 (1958) 47
C_6H_4ClF	o-Chlorofluorobenzene	-	-	Spec	Harris	JCP	24 (1956) 1232
		2-38 μ	G,L	IR, Spec, Assign	Narasimham	JCP	24 (1956) 433
		1000-3200	L	Spec, Assign	Krishnamachari	CS	26 (1957) 144
C_6H_4ClF	p-Chlorofluorobenzene	-	-	IR, Spec	Harris	JCP	24 (1956) 1232
		2-38 μ	G,L	IR, Spec, Assign	Narasimham	JCP	24 (1956) 420
C_6H_4ClI	m-Chloroiodobenzene	5-8 μ	-	C_6H_6 derivative	Depaigne	JPR	7 (1946) 33
		9-14 μ	Sol	Freq, I	Cole	TFS	46 (1950) 103
		700-1000	S,Sol	Out of plane CH deformation	Bellamy	JCS	- (1955) 2818
C_6H_4ClI	o-Chloroiodobenzene	5-8 μ	-	C_6H_6 derivative	Depaigne	JPR	7 (1946) 33
		9-14 μ	Sol	Freq, I	Cole	TFS	46 (1950) 103
		800-1600	-	I, Ext coeff	Katritzky	JCS	- (1959) 3670
C_6H_4ClI	p-Chloroiodobenzene	9-14 μ	Sol	Freq, I	Cole	TFS	46 (1950) 103
		12-15 μ	S,Sol	Freq	Kross	JACS	78 (1956) 1332
		1020	Sol	Band I	Randle	TFS	52 (1956) 9
		-	S,Sol	Assign	Stojiljkovic	SA	12 (1958) 57
C_6H_4ClNO	p-Chloronitrosobenzene	822-1535	S,Sol	Assign, Freq	Nakamoto	JACS	78 (1956) 1113

$C_6H_4ClNO_2$	2-Chloro-p-benzoquinone -4-oxime	700-3500	S	Struct	Philbrook	JOC	24	(1959)	568
$C_6H_4ClNO_2$	m-Chloronitrobenzene	6.8-13μ	S	Spec	Coates	JOSA	43	(1953)	984
		11-15μ	Sol	Analysis	Roberts	JACS	76	(1954)	4525
		700-1700	Sol	I	Katritzky	JCS	-	(1959)	2058
$C_6H_4ClNO_2$	o-Chloronitrobenzene	650-3600	-	Spec, Freq assign	Francel	JACS	74	(1952)	1265
		6-8μ	Sol	Freq, I	Conduit	JCS	-	(1959)	3273
		800-1600	-	I, Ext coefficient	Katritzky	JCS	-	(1959)	3670
$C_6H_4ClNO_2$	p-Chloronitrobenzene	12-15μ	Sol,S	Freq, CH out of plane bending	Kross	JACS	78	(1956)	1332
		1300-1600	S,Sol	Struct	Kross	JACS	78	(1956)	4225
		700-1700	Sol	Freq assign	Katritzky	JCS	-	(1959)	2051
		9.9μ	Sol	Relative absorbances	Seeber	AC	31	(1959)	622
$C_6H_4ClNO_3$	o-Chloro-p-nitrophenol	2.7-3.0μ	Sol	H bond, Freq	Baker	JACS	80	(1958)	5358
		5-15μ	S	I, Freq	Lippincott	SA	16	(1960)	58
$C_6H_4ClN_3$	5-Chlorobenzotriazole	650-1000	-	Freq	Binder	JACS	81	(1959)	3608
		-	S	Freq, H bond	O'Sullivan	JCS	-	(1960)	3653
$C_6H_4ClO_2B$	o-Phenylenechloroboronate	6-14μ	L,S	Assign, Struct	Blau	JCS	-	(1960)	380
$C_6H_4Cl_2$	m-Dichlorobenzene	3.25μ	-	Halogen derivatives of C_6H_6	Brackett	PR	37	(1931)	108
		-	-	Vibrating mechanical model	Murray	JCP	3	(1935)	180
		52-152μ	L,Sol	Ext coefficient	Errera	TFS	33	(1937)	120
		-	-	Assign	Sponer	JCP	9	(1941)	667
		5-8μ	-	C_6H_6 derivative	Depaigne	JPR	7	(1946)	33
		12-14μ	Sol	Freq, I	Bell	PRS	192	(1948)	498
		9-14μ	Sol	Freq, I	Cole	TFS	46	(1950)	103
		2-38μ	-	Spec	Plyler	JOSA	40	(1950)	801
		190-270	L	Spec	Acquista	JOSA	43	(1953)	997
		-	Sol	Analysis	Kovacic	JACS	76	(1954)	5491
		700-1000	S,Sol	Out of plane CH deformation	Bellamy	JCS	-	(1955)	2818
		1650-2000	-	H bond, Assign, Freq	Whiffen	SA	7	(1955)	253
		12.78μ	Sol	Quant analysis	Hudson	AC	29	(1957)	1717
		11.0-13.9μ	Sol	Quant analysis	Kiley	AC	29	(1957)	1896
		2-38μ	Sol,L	Spec, Freq	Plyler	JRNB	58	(1957)	255
		700-1700	Sol	I	Katritzky	JCS	-	(1957)	2058

$C_6H_4Cl_2$	o-Dichlorobenzene	3.25 μ	-	Halogen derivatives of C_6H_6	Brackett	PR	37	(1931)	108
		-	-	Vibrating mechanical model	Murray	JCP	3	(1935)	180
		1-14 μ	L	Spec	Stair	JRNB	15	(1935)	295
		52-152 μ	L, Sol	Ext coefficient	Errera	TFS	33	(1937)	120
		-	-	Assign	Sponer	JCP	9	(1941)	667
		1050-2000	-	Freq, Spec	Barnes	IEC	15	(1943)	659
		5-8 μ	-	C_6H_6 derivatives	Depaigne	JPR	7	(1946)	33
		12-14 μ	Sol	Freq, I	Bell	PRS	192	(1948)	498
		22-39 μ	L	Absorption frequency	Plyler	JCP	17	(1949)	218
		2-38 μ	-	Spec	Plyler	JOSA	40	(1950)	801
		9-14 μ	Sol	Freq, I	Cole	TFS	46	(1950)	103
		5-6 μ	L	Spec	Young	AC	23	(1951)	709
		8.14-5 μ	Sol	Freq	Urone	AC	24	(1952)	626
		-	-	H bond	Tamres	JACS	74	(1952)	3375
		-	Sol	Analysis	Kovacic	JACS	76	(1954)	5491
		1650-2000	-	Freq, assign	Whiffen	SA	7	(1955)	253
		13.37 μ	Sol	Quant analysis	Hudson	AC	29	(1957)	1717
		11.0-13.9 μ	Sol	Quant analysis	Kiley	AC	29	(1957)	1896
		2-38 μ	L, Sol	Spec, Freq	Plyler	JRNB	58	(1957)	255
		800-1600	-	I, Ext coefficient	Katritzky	JCS	-	(1959)	3670
$C_6H_4Cl_2$	p-Dichlorobenzene	3.25 μ	-	Halogen derivatives of C_6H_6	Brackett	PR	37	(1931)	108
		-	-	Vibrating mechanical models	Murray	JCP	3	(1935)	180
		52-152 μ	L, Sol	Ext coefficient	Errera	TFS	33	(1937)	120
		-	-	Assign	Sponer	JCP	9	(1941)	667
		5-8 μ	-	C_6H_6 derivatives	Depaigne	JPR	7	(1946)	33
		12-14 μ	Sol	Freq, I	Bell	PRS	192	(1948)	498
		700-1700	L, Sol	Spec	Richards	PRS	195	(1948)	1
		9-14 μ	Sol	Freq, I	Cole	TFS	46	(1950)	103
		2-38 μ	-	Spec	Plyler	JOSA	40	(1950)	801
		5-6 μ	Sol	Spec	Young	AC	23	(1951)	709
		-	Sol	Analysis	Kovacic	JACS	76	(1954)	5491
		700-1000	S, Sol	Out of plane C-H deformation	Bellamy	JCS	-	(1955)	2818
		2-25 μ	S	Orientation effect	Stewart	JCP	23	(1955)	986
		1650-2000	-	Assign	Whiffen	SA	7	(1955)	253
		12-15 μ	S, Sol	Freq	Kross	JACS	78	(1956)	1332
		1020	Sol	I	Randle	TFS	52	(1956)	9
		9.85 μ	Sol	Quant analysis	Hudson	AC	29	(1957)	1717

		1.7-15.9μ	Sol	Quant analysis	Kiley	AC	29	(1957)	1896
		-	Sol,L	Spec, Freq	Plyler	JRNB	58	(1957)	255
		400-3300	S,Sol	Assign	Stojiljkovic	SA	12	(1958)	47
		700-1700	Sol	Freq, I	Katritzky	JCS	-	(1959)	2051
		-	-	Spec, Assign	Saeki	CPR	249	(1959)	2307
		5-15μ	S	I, Freq	Lippincott	SA	16	(1960)	58
		400-5000	G	Freq, Assign	Saeki	BCSJ	33	(1960)	1021
$C_6H_4Cl_2$	1,6-Dichloro-2,4-hexadiyne	-	L	Freq, I	Allan	JCS	-	(1955)	1874
$C_6H_4Cl_2F_6$	4,5-Dichloro-1,1,1,4,5,5-hexafluoro-2-methyl-2-pentene	-	-	C=C freq	Tarrant	JACS	77	(1955)	3640
$C_6H_4Cl_2O$	2,4-Dichlorophenol	13.8μ	Sol	Quant analysis	Scheddel	AC	29	(1957)	1553
		2.7-30μ	Sol	H bond, Freq	Baker	JACS	80	(1958)	8358
		3100-3550	Sol	H bond	Lund	ACS	12	(1958)	298
		3500-3800	Sol	Freq, Hammett const	Puttnam	JCS	-	(1960)	5100
		-	L,Sol	H bond, Freq	Reeves	CJC	38	(1960)	1249
$C_6H_4Cl_2O$	2,6-Dichlorophenol	13.1μ	Sol	Quant analysis	Scheddel	AC	29	(1957)	1553
		3500-3800	Sol	Freq, Hammett const	Puttnam	JCS	-	(1960)	5100
$C_6H_4Cl_3N$	1,4,5-Trichloroaniline	26.0-8μ	Sol	I, Quant analysis	Whetsel	AC	30	(1958)	1598
$C_6H_4Cl_3N$	2,4,6-Trichloroaniline	6400-7100	Sol	Spec, Freq	Wulf	JACS	57	(1935)	1464
		8-26μ	Sol	I, Quant analysis	Whetsel	AC	30	(1958)	1598
$C_6H_4Cl_6$	α-Hexachlorocyclohexene	2-16μ	Sol	Spec, Config	Kolka	JACS	76	(1954)	1244
$C_6H_4Cl_6$	β-Hexachlorocyclohexene	2-16μ	Sol	Spec, Config	Kolka	JACS	76	(1954)	1244
$C_6H_4Cl_6$	γ-Hexachlorocyclohexene	2-16μ	Sol	Spec, Config	Kolka	JACS	76	(1954)	1244
$C_6H_4Cl_6$	δ-Hexachlorocyclohexene	2-16μ	Sol	Spec, Config	Kolka	JACS	76	(1954)	1244
C_6H_4FI	m-Fluoroiodobenzene	100-3200	L,G	Spec, Assign	Krishnamachari	CS	26	(1957)	144
C_6H_4FI	o-Fluoroiodobenzene	100-3200	L,G	Spec, Assign	Krishnamachari	CS	26	(1957)	144
C_6H_4FI	p-Fluoroiodobenzene	2-38μ	L	IR, Spec, Assign	Narasimham	JCP	24	(1956)	420
		400-3300	S,Sol	Assign	Stojiljkovic	SA	12	(1958)	47
$C_6H_4F_2$	1,3-Difluorobenzene	2-22μ	G,L	IR, Spec, Assign	Ferguson	JCP	21	(1953)	1470

$C_6H_4F_2$	1,4-Difluorobenzene	3-25 μ	L,G	IR, Assign	Delsemme	JCP	18 (1950) 1680
		-	-	Freq	Bomstein	AC	25 (1953) 512
		2-38 μ	L,G	IR, Spec, Assign	Ferguson	JCP	21 (1953) 1457
		-	-	NCA, FC, Freq	Steele	TFS	56 (1960) 8
		400-1500	G	I	Steele	TFS	56 (1960) 177
$C_6H_4F_6$	1,1,2,5,5,5-Hexafluoro-4-methyl-1,3-pentadiene	-	-	C=C freq	Tarrant	JACS	77 (1955) 3640
$C_6H_4F_8$	1H:4H/2H:5H-Octafluorocyclohexane	2900-3100	G	Freq	Steele	TE	3 (1958) 181
$C_6H_4F_8O$	1,1,2,3,3,4,4,4-Octafluorobutyl methyl ketone	-	-	C=O freq	Lazerte	JACS	77 (1955) 910
C_6H_4INO	p-Iodonitrosobenzene	822-1535	S,Sol	Assign, Freq	Nakamoto	JACS	78 (1956) 1113
$C_6H_4INO_2$	m-Iodonitrobenzene	11-15 μ	Sol	Spec	Roberts	JACS	76 (1954) 4525
		700-800	S,Sol	Assign, I	Bell	JCS	- (1960) 1209
$C_6H_4INO_2$	o-Iodonitrobenzene	11-15 μ	Sol	Spec	Roberts	JACS	76 (1954) 4525
		700-800	S,Sol	Assign, I	Bell	JCS	- (1960) 1209
$C_6H_4INO_2$	p-Iodonitrobenzene	800-1600	S	Freq, Assign	Glusker	SA	6 (1954) 434
		11-15 μ	Sol	Spec	Roberts	JACS	76 (1954) 4525
		1300-1600	S,Sol	Struct	Kross	JACS	78 (1956) 4225
		700-800	Sol,S	Assign, I	Bell	JCS	- (1960) 1209
$C_6H_4INO_3$	m-Iodoxynitrobenzene	700-800	S,Sol	Assign, I	Bell	JCS	- (1960) 1209
$C_6H_4INO_3$	o-Iodoxynitrobenzene	700-800	S,Sol	Assign, I	Bell	JCS	- (1960) 1209
$C_6H_4INO_3$	p-Iodoxynitrobenzene	700-800	S,Sol	Assign, I	Bell	JCS	- (1960) 1209
$C_6H_4I_2$	p-Diiodobenzene	900-1150	-	Christiansen effect	Price	JCP	16 (1948) 1157
		1020	Sol	I	Randle	TFS	52 (1956) 9
		400-3300	S,Sol	Assign	Stojiljkovic	SA	12 (1958) 47
$C_6H_4N_2$	3-Cyanopyridine	-	Sol	C=N freq, I	Skinner	JCS	- (1955) 487
		600-3000	Sol	Assign	Katritzky	JCS	- (1958) 3165
		-	Sol,L	Freq, I	Foffain	NC	13 (1959) 213

$C_6H_4N_2$	4-Cyanopyridine	-	Sol,L	Freq, I	Foffain	NC	13 (1959)	213
$C_6H_4N_2O$	Benzfurazan	6-7μ	-	Spec, Freq	Gaughran	JACS	76 (1954)	2233
$C_6H_4N_2O$	p-Cyanopyridine-1-oxide	600-3000	Sol	I	Katritzky	JCS	- (1958)	2192
		800-3000	Sol	Spec, Freq, I	Katritzky	JCS	- (1959)	3680
$C_6H_4N_2O$	2-Cyanopyridine-N-oxide	800-3000	Sol	I	Katritzky	JCS	- (1958)	2195
$C_6H_5N_2O_2$	Benzfuroxan	2-8.2μ	Sol	Spec	Smith	JACS	73 (1951)	2435
		1400-1700	Sol	Freq	Boyer	JACS	75 (1953)	5298
		6-7μ	-	Spec	Gaughran	JACS	76 (1954)	2233
$C_6H_4N_2O_3$	p-Nitronitrosobenzene	822-1535	S,Sol	Assign, Freq	Nakamoto	JACS	78 (1956)	1113
$C_6H_4N_2O_3S$	p-Diazobenzenesulfonic acid	-	S	Freq	Aroney	JCS	- (1955)	276
$C_6H_4N_2O_4$	m-Dinitrobenzene	1050-1800	-	Spec	Barnes	IEC	15 (1943)	659
		-	-	Absorbance	Bomstein	AC	25 (1953)	512
		700-1000	S,Sol	Out of plane CH deformation	Bellamy	JCS	- (1955)	2818
		1650-1200	Sol	H bond	Dyall	AJC	11 (1958)	513
		1650-1200	Sol	Freq, Ext coefficient	Hambly	AJC	11 (1958)	513
		6-8μ	Sol	Freq, I	Conduit	JCS	- (1959)	3273
		-	L	Spec	Karagounis	ZE	63 (1959)	1120
		700-1700	Sol	I	Katritzky	JCS	- (1959)	2058
		-	Sol	Freq	Bryson	JACS	82 (1960)	4858
$C_6H_4N_2O_4$	o-Dinitrobenzene	1050-1850	-	Spec	Barnes	IEC	15 (1943)	659
		-	-	Absorbance	Bomstein	AC	25 (1953)	512
		1200-1650	Sol	H bond	Dyall	AJC	11 (1958)	513
		1200-1650	Sol	Freq, ext coefficient	Hambly	AJC	11 (1958)	529
		6-8μ	Sol	Freq, I	Conduit	JCS	- (1959)	3273
		-	L	Spec	Karagounis	ZE	63 (1959)	1120

$C_6H_4N_2O_4$	p-Dinitrobenzene	1200-1800	-	Spec	Barnes	IEC	15	(1943)	659
		800-1250	-	Christiansen effect	Price	JCP	16	(1948)	1157
		700-3400	S	IR, Spec	Mann	PRS	211	(1952)	168
		-	-	Absorbance	Bomstein	AC	25	(1953)	512
		12-15μ	L,Sol	Freq	Kross	JACS	78	(1956)	1332
		1300-1600	S,Sol	Struct	Kross	JACS	78	(1956)	4225
		-	-	Spec of complex	Gagnaux	HCA	41	(1958)	1322
		6-8μ	Sol	Freq, I	Conduit	JCS	-	(1959)	3273
		-	L	Spec	Karagounis	ZE	63	(1959)	1120
		700-1700	Sol	Freq, Assign	Katritzky	JCS	-	(1959)	2051
$C_6H_4N_2O_4$	2,3-Dicarboxypyrazine	1500-2000	S	Spec, Freq	Solomons	JACS	75	(1953)	679
		-	Sol	Spec	Yoshida	CPBT	7	(1959)	162
$C_6H_4N_2O_5$	2,4-Dinitrophenol	2.7-3.0μ	Sol	H bond, Freq	Baker	JACS	80	(1958)	5358
		3000-3500	Sol,S	H bond	Boll	ACS	12	(1958)	1777
		-	Sol,L	H bond, Freq	Reeves	CJC	38	(1960)	1249
$C_6H_4N_2O_7$	Dinitrophloroglucinol	2-10μ	-	Spec, Group freq	Dubiel	JOC	19	(1954)	1359
$C_6H_4N_2S$	Benzo-1-thia-2,3-diazole	-	S	Freq	LeFevre	JCS	-	(1954)	4686
$C_6H_4N_4$	Pteridine	434-3117	S	Spec, I	Mason	JCS	-	(1955)	2336
$C_6H_4N_4O$	6-Hydroxypteridine	-	S	Freq	Albert	JCS	-	(1952)	1620
$C_6H_4N_4O$	7-Hydroxypteridine	-	-	Distinction from 6-Hydroxypteridine	Albert	JCS	-	(1952)	1620
$C_6H_4N_4O_2$	m-Nitrobenzazide	2000-2200	S	Freq	Lieber	JOC	24	(1959)	1014
$C_6H_4N_4O_2$	p-Nitrobenzazide	2000-2200	S	Freq	Lieber	JOC	24	(1959)	1014
$C_6H_4N_4O_2$	4-Nitrobenzotriazole	-	S	H bond, Freq	O'Sullivan	JCS	-	(1960)	3653
$C_6H_4N_4O_2$	5-Nitrobenzotriazole	650-1000	-	Freq	Binder	JACS	81	(1959)	3608
		-	S	H bond, Freq	O'Sullivan	JCS	-	(1960)	3653
$C_6H_4N_4O_6$	2,4,6-Trinitroaniline	650-3500	S	Spec	Lothrop	JACS	73	(1951)	3581
		1250-3600	Sol	H bond	Dyall	AJC	11	(1958)	513
		3000-3600	Sol	H bond	Hambly	AJC	11	(1958)	529
$C_6H_4O_2$	1,2-Benzoquinone	1600-1800	Sol	Freq	Josien	JCP	21	(1953)	331
$C_6H_4O_2$	1,4-Benzoquinone	0.7-2.5μ	Sol	Study of CO band	Ellis	JACS	-	(1929)	1384

		-	-	Theoretical dipole	Hammick	JCS	-	(1938)	1263
		1660	S	Freq	Flett	JCS	-	(1948)	1441
		800-1300	-	Christiansen effect	Price	JCP	16	(1948)	1157
		-	Sol	Freq	Cosgrave	JCS	-	(1952)	4821
		1600-1800	Sol	Vibrations	Josien	PR,	87	(1953)	170
						JCP	21	(1953)	331
		2-12μ	S	Freq	Brown	JCS	-	(1954)	1280
		2-12μ	Sol	Spec, Struct	O'Connor	JACS	76	(1954)	2368
		-	-	Freq	Flagg	NWS	43	(1956)	467
		12-15μ	L	Freq	Kross	JACS	78	(1956)	1332
		5-15μ	S	Freq	Yates	JACS	78	(1956)	650
		-	S	Spec	Karagonuis	ZE	61	(1957)	1094
		-	-	Freq	Anno	BCSJ	31	(1958)	728
		-	Sol	Assign	Flaig	A	626	(1959)	215
		5-15μ	-	Spec, Struct	Edwards	JAPC	10	(1960)	246
$C_6H_4O_2$	2,4-Hexadiyonic acid	-	Sol	Freq, I	Allan	JCS	-	(1955)	1874
$C_6H_4O_3$	2-Furylglyoxal	-	Sol	Freq	Cosgrove	JCS	-	(1952)	4821
$C_6H_4O_3$	2-Hydroxy-p-benzoquinone	-	Sol	Assign	Flaig	A	626	(1959)	215
$C_6H_4O_3S$	3-Carboxy-1,4-thiapyrone	717-1718	S	I, Freq, H bond	Tarbell	JACS	76	(1954)	2451
$C_6H_4O_4$	Coumalic acid	2-15μ	S	Spec, Freq, Struct	Stitt	JACS	76	(1954)	3642
$C_6H_4O_4$	2,5-Dihydroxy-1,4-benzoquinone	-	Sol	Freq, Ident	Hochstein	JACS	75	(1953)	5455
C_6H_5D	Benzene-d_1	-	-	Comparison with pyridine	Kline	JCP	12	(1944)	300
		-	-	Struct	Bailey	JCS	-	(1946)	222
		380-3200	G	Assign, Spec	Bailey	JCS	-	(1946)	299
		-	-	Quant mech	Miller	JCP	14	(1946)	282
		-	-	Vib analysis	Halverson	RMP	19	(1947)	87
		-	-	Assign	Mair	JCP	17	(1949)	1236
		-	-	Freq	Short	JCS	-	(1952)	168
		500-900	G	Freq, I	Tiers	JCP	20	(1952)	761
		-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
		-	-	Freq	Anderson	JCP	23	(1955)	1047
		-	L	Freq, I	Dauben	JACS	77	(1955)	2886
		1030	-	Freq	Kross	JACS	77	(1955)	5858
		625-900	L	Out of plane CH binding vibrations	Margoshes	SA	7	(1955)	14
		-	-	Freq, Assign	Narasimham	JCP	24	(1956)	420

C_6H_5DO	Phenol-d_1	1-15μ	G	Freq, Assign	Williams	JCP,	7	(1939)	802
						PR	55	(1939)	684
		-	-	Association	Davies	JCP	16	(1948)	267
		890-400	Sol	Spec, Struct, Assign	Davies	JCS	-	(1954)	120
		350-4000	L,Sol	OD bands	Stuart	JCP	24	(1956)	559
		3.5-5.5μ	Sol	H bond	Bell	JCP	31	(1959)	1158
		300-3800	S,L,G, Sol	Spec, Assign, Thermo	Evans	SA	16	(1960)	1382
C_6H_5DS	Thiophenol-d_1	-	L	Band freq	Plant	JACS	77	(1955)	1572
$C_6H_5DO_2$	Benzoic acid-d_1	650-900	L,Sol	CH out of plane	Yoshida	CPBT	8	(1960)	389
$C_6H_5DO_2S$	Benzenesulphinic acid-d_1	700-3000	S	Spec, Struct, Assign, H bond	Detoni	JCS	-	(1955)	3163
$C_6H_5D_2N$	Aniline-d_2	1-15μ	G	Freq, Assign	Williams	JCP	7	(1939)	802
		1-15	G	Freq, Assign	Williams	PR	55	(1939)	684
		400-3800	G,L, Sol	Spec	Evans	SA	16	(1960)	428
$C_6H_5D_2O_2P$	Benzenephosphinic acid-d_2	2-21μ	S	Spec, Struct	Daasch	AC	23	(1951)	853
$C_6H_5D_2O_3P$	Benzenephosphonic acid-d_2	2-21μ	S	Spec, Struct	Daasch	AC	23	(1951)	853
C_6H_5Br	Bromobenzene	-	-	CH freq	Bonino	TFS	25	(1929)	876
		1-7.5μ	L	Spec, Freq	Daugherty	PR	34	(1929)	1549
		3.1-3.6μ	L	Spec, Freq	Barnes	PR	35	(1930)	1524
		8787	-	Halogen derivatives of C_6H_6	Brackett	PR	37	(1931)	108
		-	-	Freq, Assign	Teets	JCP	3	(1935)	175
		1-13μ	L	Spec, Struct	Plum	JCP	5	(1937)	172
		-	-	Solvent effect	Gordy	JCP	7	(1939)	93
		-	-	C-H FC	Linnett	TFS	41	(1945)	223
		5-8μ	-	C_6H_6 derivatives	Depaigne	JPR	7	(1946)	33
		12.5-16.5μ	L	Spec	Mortimer	JACS	69	(1947)	822
		12-14μ	Sol	Freq, I	Bell	PRS	192	(1948)	498
		22-39μ	L	Freq	Plyler	JCP	17	(1949)	218
		9-14μ	Sol	Freq, I	Cole	TFS	46	(1950)	103
		-	Sol	Freq, H bond	Tamres	JACS	74	(1952)	3375
		-	L	Ident	Gilman	JOC	18	(1953)	1743

		-	Sol	Analysis	Ferguson	JACS	76	(1954)	1250
		-	Sol	Analysis	Kovacic	JACS	76	(1954)	5491
		1071	L	Freq	Kross	JACS	77	(1955)	5858
		625-900	L	Out of plane CH bending	Margoshes	SA	7	(1955)	14
		-	-	Microwave dispersion	Poley	JCP	23	(1955)	405
		1020	Sol	I	Randle	TFS	52	(1956)	9
		-	-	Assign, Thermo	Whiffen	JCS	-	(1956)	1350
		2-38μ	L	Spec, Freq, Assign	Plyler	JRNB	58	(1957)	255
		4000-600	Sol	Freq	Katritzky	JCS	-	(1958)	4155
		-	-	Assign	Kakiyuchi	NKZ	80	(1959)	28
C_6H_5BrO	m-Bromophenol	3598	Sol	Freq, Hammett const	Baker	JPC	62	(1958)	744
		-	L	Substitution effect	Cabana	JPC	64	(1960)	1941
		3500-3800	Sol	Freq, Hammett const	Puttnam	JCS	-	(1960)	5100
C_6H_5BrO	o-Bromophenol	6700-7200	Sol	OH bands	Wulf	JACS	58	(1936)	2287
		7000	-	Absorption band	Wulf	JCP	6	(1938)	712
		2.7-2.95μ	Sol	Spec	Davies	TFS	36	(1940)	333
		10000	Sol	Spec, H bond	Wulf	JCP	8	(1940)	745
		7200-8800	Sol	H bond	Wulf	JCP	8	(1940)	753
		-	G, Sol	Freq	Rossmy	JCP	21	(1953)	1606
		3600	-	Freq	Baker	JACS	80	(1958)	3598
		2.7-3.0μ	Sol	H bond, Freq	Baker	JACS	80	(1958)	5358
		800-1600	-	I, Ext coefficient	Katritzky	JCS	-	(1959)	3670
		-	L	Substitution effect	Cabana	JPC	64	(1960)	1941
		-	Sol	H bond	Jones	CIL	-	(1960)	661
		3500-3800	Sol	Freq, Hammett consts	Puttnam	JCS	-	(1960)	5100
		-	L, Sol	Freq, H bond	Reeves	CJC	38	(1960)	1249
C_6H_5BrO	p-Bromophenol	3μ	Sol	Freq	Ingraham	JACS	74	(1952)	2297
		-	Sol	Freq	Bavin	CJC	35	(1957)	1555
		3600	Sol	Freq	Baker	JPC	62	(1958)	744
		3μ	Sol	I	Moccia	PRS	243	(1958)	154
		3570-3700	Sol	Freq, I	Flynn	AJC	12	(1959)	575
		-	L	Substitution effect	Cabana	JPC	64	(1960)	1941
		3500-3800	Sol	Freq	Puttnam	JCS	-	(1960)	5100
C_6H_5BrOS	5-Bromo-2-acetyl-thiophene	-	-	Spec	Otsuji	NKZ	80	(1959)	1199
$C_6H_5BrO_2$	4-Bromocatechol	3μ	Sol	Freq	Ingraham	JACS	74	(1952)	2297

$C_6H_5BrO_3S$	m-Bromobenzenesulfonic acid	14.83-15.32μ	Sol	Quant analysis	Jackson	JACS	77	(1955)	5625
$C_6H_5BrO_3S$	o-Bromobenzenesulfonic acid	9.84-15.43μ	Sol	Quant analysis	Jackson	JACS	77	(1955)	5625
$C_6H_5BrO_3S$	p-Bromobenzenesulfonic acid	12.22-13.61μ	Sol	Quant analysis	Jackson	JACS	77	(1955)	5625
$C_6H_5Br_2N$	3,5-Dibromoaniline	-	Sol	Freq	Bryson	JACS	82	(1960)	4858
C_6H_5Cl	Chlorobenzene	0.59-2.8μ	-	IR	Ellis	PR	32	(1928)	906
		-	-	Freq	Bonino	TFS	25	(1929)	876
		1-7.5μ	L	Spec, Freq	Daugherty	PR	34	(1929)	1549
		3.1-3.6μ	L	Spec, Freq	Barnes	PR	35	(1930)	1524
		8800	--	Halogen derivatives of C_6H_6	Brackett	PR	37	(1931)	108
		2μ	L		Ingersoll	PR	44	(1933)	399
		-	-	model	Murray	JCP	3	(1935)	180
		1-14μ	L	Spec	Stair	JRNB	15	(1935)	295
		-	-	Mechanical models, Freq	Teets	JCP	3	(1935)	175
		3-4μ	L	Solvent effect on HCl	Williams	PR	50	(1936)	719
		-	-	Dispersion of magnetic double refr	Davis	JOSA	30	(1940)	488
		-	-	Assign	Sponer	JCP	9	(1941)	667
		1050-1800	-	Freq, Spec	Barnes	IEC	15	(1943)	659
		-	-	C-H FC	Linnett	TFS	41	(1945)	223
		5-8μ	-	C_6H_6 derivatives	Depaigne	JPR	7	(1946)	33
		12-14μ	Sol	Freq, I	Bell	PRS	192	(1948)	498
		22-39μ	L	Freq	Plyler	JCP	17	(1949)	218
		9-14μ	Sol	Freq, I	Cole	TFS	46	(1950)	103
		2-38μ	-	Spec	Plyler	JOSA	40	(1950)	1801
		8.5-14μ	Sol	Spec	Ferguson	AC	23	(1951)	1510
		5-6μ	L	Spec	Young	AC	23	(1951)	709
		15-20μ	L	Transparent solvent	Marrison	JSI	29	(1952)	233
		-	Sol	Freq, H bond	Tamres	JACS	74	(1952)	3375
		8-14.5μ	Sol	Freq	Urone	AC	24	(1952)	626
		190-270	L	Spec	Acquista	JOSA	43	(1953)	977
		-	Sol	Analysis	Ferguson	JACS	76	(1954)	1250
		-	Sol	Analysis	Kovacic	JACS	76	(1954)	5491
		11-15μ	Sol	Ident.	Roberts	JACS	76	(1954)	4525
		1082	L	Freq	Kross	JACS	77	(1955)	5858
		625-900	L	Out of plane δ CH	Margoshes	SA	7	(1955)	14

		-	-	Microwave dispersion	Poley	JCP	23	(1955)	405
		1650-2000	-	Assign, Freq	Whiffen	SA	7	(1955)	253
		1020	Sol	Band I	Randle	TFS	52	(1956)	9
		-	-	Assign, Thermo	Whiffen	JCS	-	(1956)	1350
		11.0-13.9μ	Sol	Quant analysis	Kiley	AC	29	(1957)	1896
		2-38μ	L	Spec, Assign	Plyler	JRNB	58	(1957)	255
		-	-	Microwave, Mol consts	Selen	AF	13	(1957)	81
		600-4000	Sol	Freq	Katritzky	JCS	-	(1958)	4155
		-	-	Out of plane vibration assign	Kakiyuchi	NKZ	80	(1959)	28
		600-1700	L	Spec	Lecompte	CPR	249	(1959)	2443
		2-15μ	Sol	Freq, Spec, Struct	Smith	SA	16	(1960)	87
$C_6H_5ClF_4O$	1-Ethoxy-2-chloro-3,3,4,4-tetrafluoro-cyclobutene-1	3-15μ	G,L	Spec, Struct	Park	JACS	73	(1951)	2342
$C_6H_5ClN_2$	Benzenediazonium chloride	420-4000	-	Spec, Assign	Gray	DA	19	(1958)	454
$C_6H_5ClN_2O_2$	2-Nitro-3-chloro-aniline	-	Sol	Freq, H bond	Dyall	CIL	-	(1958)	262
		1250-3600	Sol	H bond	Dyall	AJC	11	(1958)	513
		3000-3600	Sol	Freq	Hambly	AJC	11	(1958)	513
$C_6H_5ClN_2O_2$	2-Nitro-6-chloro-aniline	-	Sol	Freq, H bond	Dyall	CIL	-	(1958)	262
		1250-3650	Sol	H bond	Dyall	AJC	11	(1958)	513
		3000-3600	Sol	Freq	Hambly	AJC	11	(1958)	529
$C_6H_5ClN_2O_4S$	1-Chloro-2-nitrobenzene-4-sulfonamide	-	-	Spec	Marian	HCA	43	(1960)	1122
C_6H_5ClO	Chloroethynyl ethynyl-methyl carbinol	-	-	Freq	McLamore	JOC	20	(1955)	109
C_6H_5ClO	m-Chlorophenol	5-8μ	-	C_6H_6 derivatives	Depaigne	JPR	7	(1946)	33
		-	-	Analysis	Johnson	JCS	-	(1951)	3275
		-	Sol	Freq	Goulden	SA	6	(1954)	129
		3598	Sol	Freq	Baker	JPC	62	(1958)	744
		3μ	Sol	I	Moccia	PRS	243	(1958)	154
		-	Sol	Freq	Stone	SA	10	(1958)	17
		-	L	Substitution effect	Cabana	JPC	64	(1960)	1941
		3500-3800	Sol	Freq, Hammett const	Puttnam	JCS	-	(1960)	5100

C_6H_5ClO	o-Chlorophenol	6800-7200	Sol	Spec	Wulf	JACS	57	(1935)	1464
		-	G	Spec	Badger	JCP	4	(1936)	711
		-	Sol	Spec, Struct	Pauling	JACS	58	(1936)	94
		2.7-3μ	Sol	Spec	Davies	TFS	34	(1938)	1427
		-	-	Temp effect	Zumwalt	JCP	7	(1939)	87
		-	-	H bond	Badger	JCP	8	(1940)	288
		-	-	Freq	Davies	TFS	36	(1940)	333
		10000	Sol	Spec, H bond	Wulf	JCP	8	(1940)	745
		7200-8800	Sol	H bond	Wulf	JCP	8	(1940)	753
		10000-10600	G	3d Harmonic O-H	Zumwalt	JACS	62	(1940)	305
		1100-1700	-	Freq, Spec	Barnes	IEC	15	(1943)	659
		5-8μ	-	C_6H_6 derivatives	Depaigne	JPR	7	(1946)	33
		-	-	Analysis	Johnson	JCS	-	(1951)	3275
		3577-13340	G,Sol	Freq, Iso	Rossmy	JCP	21	(1953)	1606
		-	-	H-Cl bond effect on CH of CHO	Pinchas	AC	29	(1957)	334
		9.7μ	Sol	Quant analysis	Scheddel	AC	29	(1957)	1553
		3000	-	Freq	Baker	JACS	80	(1958)	3598
		2.7-3.0μ	Sol	H bond, Freq	Baker	JACS	80	(1958)	5358
		9415 Mc/sec	Sol	Absorption	Bhattacharya	IJP	32	(1958)	1573
		3	Sol	Freq, H bond	Flett	SA	10	(1958)	21
		2800-3700	L,Sol	Effect of change of solvent	Sirkar	IJP	32	(1958)	345
		800-1600	-	I, Ext coefficient	Katritzky	JCS	-	(1959)	3670
		-	Sol	H bond, Temp effect	Jones	CIL	-	(1960)	661
		3500-3800	Sol	Freq, Hammett const	Puttnam	JCS	-	(1960)	5100
		-	L,Sol	H bond, Freq	Reeves	CJC	38	(1960)	1249
		-	L	Substitution effect	Cabana	JPC	64	(1960)	1941
C_6H_5ClO	p-Chlorophenol	1050-1800	-	Freq, Spec	Barnes	IEC	15	(1943)	659
		5-8μ	-	C_6H_6 derivatives	Depaigne	JPR	7	(1946)	33
		-	-	Analysis	Johnsons	JCS	-	(1951)	3275
		5-6μ	-	Spec	Young	AC	23	(1951)	709
		3μ	Sol	Freq, Hammett const	Ingraham	JACS	74	(1952)	2297
		-	Sol	Freq	Goulden	SA	6	(1954)	129
		-	S,L	Spec	Karagonuis	ZE	61	(1957)	1094
		9.1μ	Sol	Quant analysis	Scheddel	AC	29	(1957)	1553
		3602	Sol	Freq	Baker	JPC	62	(1958)	744
		3600	-	Freq	Baker	JACS	80	(1958)	3598
		3μ	Sol	Freq, H bond	Flett	SA	10	(1958)	21
		3μ	Sol	I	Moccia	PRS	243	(1958)	154
		-	Sol	Freq	Stone	SA	10	(1958)	17
		3500-3700	Sol	Freq, I	Flynn	AJC	12	(1959)	575
		700-1700	Sol	Freq, Assign	Katritzky	JCS	-	(1959)	2051

		3500-3800	Sol	Freq	Puttnam	JCS	- (1960) 5100
		-	L	Substitution effect	Cabana	JPC	64 (1960) 1941
C_6H_5ClOS	5-Chloro-2-acetyl-thiophene	-	-	Spec	Otsuji	NKZ	80 (1959) 1199
C_6H_5ClOS	Benzenesulphinyl chloride	700-3300	L	Struct, Assign, H bond	Detoni	JCS	- (1955) 3163
$C_6H_5ClO_2$	4-Chlorocatechol	3 μ	Sol	Freq	Ingraham	JACS	74 (1952) 2297
$C_6H_5ClO_2S$	Benzenesulphonyl chloride	1000-1500	Sol	Spec	Schreiber	AC	21 (1949) 1168
		400-3500	L	Freq, Assign	Ham	AJC	6 (1953) 135
		625-900	-	Out of plane CH bending vibration	Margoshes	SA	7 (1955) 14
		12-15 μ	L	Freq	Kross	JACS	78 (1956) 1332
$C_6H_5Cl_2N$	1,4-Dichloroaniline	8-26 μ	Sol	Quant analysis	Whetsel	AC	30 (1958) 1598
$C_6H_5Cl_2OP$	Phenyldichlorophosphine oxide	2-21 μ	L	Spec, Struct	Daasch	AC	23 (1951) 853
		-	-	P=O freq	Bell	JACS	76 (1954) 5185
$C_6H_5Cl_2OP$	Phenylphosphonyl chloride	2.5-25 μ	Sol	Freq	Nyquist	APS	11 (1957) 161
$C_6H_5Cl_2O_2P$	Phenyl dichloro-phosphionate	700-1400	Sol	Spec, Freq	Bellamy	JCS	- (1952) 475
		-	-	P=O freq	Bell	JACS	76 (1954) 5185
$C_6H_5Cl_2P$	Phenyldichlorophosphine	2-21 μ	L	Spec, Struct	Daasch	AC	23 (1951) 853
$C_6H_5Cl_2PS$	Phenyldichlorophosphine sulfide	2-21 μ	L	Spec, Struct	Daasch	AC	23 (1951) 853
$C_6H_5Cl_3Si$	Phenyltrichlorosilane	400-5000	Sol	Ident	Smith	AC	31 (1959) 1174
		2-30 μ	Sol	Freq, Struct	Grenoble	APS	14 (1960) 85
		2-15 μ	Sol	Freq, Spec	Smith	SA	16 (1960) 87
$C_6H_5Cl_5$	α-Pentachlorocyclo-hexene	2-16 μ	Sol	Spec, Analysis	Kolka	JACS	76 (1954) 1244
$C_6H_5Cl_5$	β-Pentachlorocyclo-hexene	2-16 μ	Sol	Spec, Analysis	Kolka	JACS	76 (1954) 1244
$C_6H_5Cl_5$	γ-Pentachlorocyclo-hexene	2-16 μ	Sol	Spec, Analysis	Kolka	JACS	76 (1954) 1244

$C_6H_5Cl_5$	δ-Pentachlorocyclohexene	2-16μ	Sol	Spec, Analysis	Kolka	JACS	76	(1954)	1244
$C_6H_5Cl_7$	Heptachlorocyclohexane	2-24μ	Sol	Spec, Iso	Daasch	AC	19	(1947)	779
		11.05-13.5μ	Sol	Quant anal	Hudson	AC	29	(1957)	1718
$C_6H_5Cl_7$	α-Heptachlorocyclohexane	-	-	Freq	Marrison	JCS	-	(1951)	1614
$C_6H_5Cl_7$	β-Heptachlorocyclohexane	-	-	Freq	Marrison	JCS	-	(1951)	1614
$C_6H_5Cl_7$	δ-Heptachlorocyclohexane	-	-	Freq	Marrison	JCS	-	(1951)	1614
		-	-	Ident	Kolka	JACS	76	(1954)	3940
C_6H_5F	Fluorobenzene	5-8μ	-	C_6H_6 derivatives	Depaigne	JPR	7	(1946)	33
		12-14μ	Sol	Freq, I	Bell	PRS	192	(1948)	498
		9-14μ	Sol	Freq, I	Cole	TFS	46	(1950)	103
		5-6μ	L	Spec	Young	AC	23	(1951)	709
		807-831	-	Struct	Garg	JCP	21	(1953)	1907
		2-38μ	G,L	IR, Spec, Assign	Smith	JCP	21	(1953)	1475
		-	Sol	Analysis	Ferguson	JACS	76	(1954)	1250
		-	Sol	Analysis	Kovacic	JACS	76	(1954)	5491
		-	G	Microwave	McCulloh	JCP	22	(1954)	1144
		1195	L	Freq	Kross	JACS	77	(1955)	5858
		625-900	L	Out of plane CH bending vibrations	Margoshes	SA	7	(1955)	14
		-	-	Microwave dispersion	Poley	JCP	23	(1955)	405
		-	-	Freq, Assign	Narasimham	JCP	24	(1956)	420
		1020	Sol	I	Randle	TFS	52	(1956)	9
		-	-	Assign, Thermo	Whiffen	JCS	-	(1956)	1350
		17500-28000 Mc/sec	-	Spec, Mol consts	Bak	JCP	26	(1957)	134
		-	L	Spec, Freq assign	Plyler	JRNB	58	(1957)	255
		-	G	Electric dipole moment	deKowalevski	JCP	31	(1959)	1438
C_6H_5FO	m-Fluorophenol	3500-3800	Sol	Freq	Baker	JPC	62	(1958)	744
		-	L	Substitution effect	Cabana	JPC	64	(1960)	1941
		2500-3800	Sol	Freq, Hammett const	Puttnam	JCS	-	(1960)	5100
C_6H_5FO	o-Fluorophenol	6800-7200	Sol	OH band	Wulf	JACS	58	(1936)	2287
		3600	-	Freq	Baker	JACS	80	(1958)	3598
		2.7-3.0μ	Sol	H bond, Freq	Baker	JACS	80	(1958)	5358

		-	L	Substitution effect	Cabana	JPC	64	(1960)	1941
		3500-3800	Sol	Freq, Hammett const	Puttnam	JCS	-	(1960)	5100
C_6H_5FO	p-Fluorophenol	3607	Sol	Freq	Baker	JPC	62	(1958)	744
		3600	-	Freq	Baker	JACS	80	(1958)	3598
		3400-3800	Sol	H bond	West	JACS	81	(1959)	1614
		-	L	Substitution effect	Cabana	JPC	64	(1960)	1941
		3500-3800	Sol	Freq, Hammett const	Puttnam	JCS	-	(1960)	5100
$C_6H_5FO_2$	4-Fluorocatechol	3μ	Sol	Freq, Hammett const	Ingraham	JACS	74	(1952)	2297
$C_6H_5FO_2S$	Benzenesulfonyl fluoride	400-3500	L	Freq, Assign	Ham	AJC	6	(1953)	135
$C_6H_5F_4N_2B$	Phenyldiazonium borofluoride	-	S	Freq	LeFevre	JCS	-	(1954)	4686
$C_6H_5F_5O_2$	1,1,1,2,2-Pentafluoro -3,5-hexadione	-	-	Freq, H bond	Park	JACS	75	(1953)	4753
$C_6H_5F_7OS$	Ethylthio n-hepta-fluorobutyrate	2-16μ	L	Spec, Freq	Hauptschein	JACS	74	(1952)	4005
$C_6H_5F_7O_2$	Ethyl perfluorobutyrate	1200-2000	Sol	Freq	Bender	JACS	75	(1953)	5986
		2-16μ	L	Spec, Freq	Rappaport	JACS	75	(1953)	2695
		-	L	Freq	Filler	JACS	76	(1954)	1376
C_6H_5I	Iodobenzene	1-7.5μ	L	Spec, Freq	Daugherty	PR	34	(1929)	1549
		8780	-	Halogen derivatives of C_6H_6	Brackett	PR	37	(1931)	108
		-	-	Mechanical models, Freq assign	Teets	JCP	3	(1935)	175
		1-13μ	L	Spec, Struct	Plum	JCP	5	(1937)	172
		1-13μ	L	FC	Linnett	TFS	41	(1945)	223
		-	-	C_6H_6 derivatives	Depaigne	JPR	7	(1946)	33
		5-8μ	-	Freq, I	Bell	PRS	192	(1948)	498
		12-14μ	Sol	Freq	Plyler	JCP	17	(1949)	218
		22-39μ	L	Spec	Acquista	JOSA	43	(1953)	977
		200-280	L	Analysis	Kovacic	JACS	76	(1954)	5491
		-	Sol	Spec	Roberts	JACS	76	(1954)	4525
		11-15μ	Sol	Freq	Kross	JACS	77	(1955)	5858
		1066	L	Out of plane CH bending vibrations	Margoshes	SA	7	(1955)	14
		625-900	L	Microwave	Poley	JCP	23	(1955)	405
		-	-						

		1020	Sol	I	Randle	TFS	52	(1956)	9
		-	-	Freq assign, Thermo	Whiffen	JCS	-	(1956)	1350
		2-38μ	L	Spec, Freq assign	Plyler	JRNB	58	(1957)	255
		700-800	S,Sol	Assign, I	Bell	JCS	-	(1960)	1209
$C_6H_5IN_2$	Pyridine iodinecyanide	-	Sol	Mol const	Popkov	JACS	82	(1960)	1850
C_6H_5IO	Iodoxybenzene	700-800	S,Sol	Assign, I	Bell	JCS	-	(1960)	1209
C_6H_5IO	m-Iodophenol	-	L	Substitution effect	Cabana	JPC	64	(1960)	1941
C_6H_5IO	o-Iodophenol	6600-7200	Sol	OH band	Wulf	JACS	58	(1936)	2287
		10000	Sol	Spec, H bond	Wulf	JCP	8	(1940)	745
		7200-8800	Sol	Spec,H bond	Wulf	JCP	8	(1940)	753
		3500-13000	G,Sol	Iso, Freq	Rossmy	JCP	21	(1953)	1606
		3600	-	Freq	Baker	JACS	80	(1958)	3598
		2.7-3.0μ	Sol	H bond, Freq	Baker	JACS	80	(1958)	5358
		-	Sol	H bond, Temp effect	Jones	CIL	-	(1960)	661
		-	L	Substitution effect	Cabana	JPC	64	(1960)	1941
		3500-3800	Sol	Freq, Hammett const	Puttnam	JCS	-	(1960)	5100
		-	Sol,L	H bond, Freq	Reeves	CJC	38	(1960)	1249
C_6H_5IO	p-Iodophenol	3599	Sol	Freq	Baker	JPC	62	(1958)	744
		-	L	Substitution effect	Cabana	JPC	64	(1960)	1941
		3500-3800	Sol	Freq, Hammett const	Puttnam	JCS	-	(1960)	5100
C_6H_5IOS	5-Iodo-2-acetylthiophene	-	-	Spec	Otsuji	NKZ	80	(1959)	1199
C_6H_5NO	2-Formylpyridine	-	Sol	Assign	Katritzky	JCS	-	(1958)	2182
C_6H_5NO	3-Formylpyridine	-	Sol	Assign	Katritzky	JCS	-	(1958)	2182
		600-3000	Sol	Assign	Katritzky	JCS	-	(1958)	3165
C_6H_5NO	4-Formylpyridine	-	Sol	Assign	Katritzky	JCS	-	(1958)	2182
C_6H_5NO	Nitrosobenzene	800-1600	S,Sol,L	Assign	Glusker	SA	6	(1954)	434
		-	-	Freq	Jander	JCS	-	(1954)	919
		1-15μ	G	Freq	Luttke	JPR	15	(1954)	633
		-	-	Freq	O'Sullivan	JCS	-	(1957)	4144
C_6H_5NO	2-Pyridinecarboxaldehyde	-	S	Spec	Chiorboli	ACR	48	(1958)	355
		650-4000	L,Sol	Spec, Freq, H bond	Heinbert	JACS	81	(1959)	3933
C_6H_5NO	3-Pyridinecarboxaldehyde	-	S	Spec	Chiorboli	ACR	48	(1958)	355
		650-4000	L,Sol	Spec, Freq, H bond	Heinbert	JACS	81	(1959)	3933

C_6H_5NO	4-Pyridinecarboxaldehyde	-	S	Spec	Chiorboli	ACR	48	(1958)	355
		650-4000	L,Sol	Spec, Freq, H bond	Heinbert	JACS	81	(1959)	3933
$C_6H_5NO.HCl$	2-Pyridinecarboxaldehyde hydrochloride	-	S	Spec	Chiorboli	ACR	48	(1958)	355
$C_6H_5NO.HCl$	3-Pyridinecarboxaldehyde hydrochloride	-	S	Spec	Chiorboli	ACR	48	(1958)	355
$C_6H_5NO.HCl$	4-Pyridinecarboxaldehyde hydrochloride	-	S	Spec	Chiorboli	ACR	48	(1958)	355
$C_6H_5NO_2$	p-Benzoquinone-4-oxime	700-3500	S	Struct	Philbrook	JOC	24	(1959)	568
$C_6H_5NO_2$	3-Hydroxy-2-pyridine-carboxaldehyde	650-4000	Sol,L	Spec, Freq, H bond	Heinbert	JACS	81	(1959)	3933
$C_6H_5NO_2$	3-Hydroxy-4-pyridine-carboxaldehyde	650-4000	L,Sol	Spec, Freq, H bond	Heinbert	JACS	81	(1959)	3933
$C_6H_5NO_2$	Isonicotinic acid	600-4000	S	X(:O)OH group presence established	Braunholtz	JCS	-	(1959)	868
$C_6H_5NO_2$	Nicotinic acid	700-4000	S,Sol	Freq	Flett	JCS	-	(1951)	962
		-	S	Freq	Witkop	JACS	75	(1953)	2572
$C_6H_5NO_2$	Nitrobenzene	0.8-2.0 μ	L	Magnetic rotation	Ingersoll	JOSA	6	(1922)	663
		1-8 μ	L	Spec, Freq, Assign	Plyler	PR	35	(1930)	605
		0-2 μ	L	Kerr effect in IR	Ingersoll	PR	44	(1933)	399
		52-152 μ	L,Sol	Trans dispers	Cartwright	PRS	154	(1936)	138
		3-4 μ	L	Solvent effect	Williams	PR	50	(1936)	719
		100 μ	Sol	Ext coefficient	Errera	TFS	33	(1937)	120
		2.5-3.7 μ	L,Sol	Spec, H bond	Gordy	JACS	60	(1938)	605
		-	-	Solvent effect	Gordy	JCP	7	(1939)	93
		-	-	Solvent effect	Gordy	JCP	7	(1939)	99
		-	-	Solvent effect	Gordy	JCP	7	(1939)	167
		-	L	Dispersion of magnetic double refr	Davis	JOSA	30	(1940)	488
		1050-1800	-	Spec	Barnes	IEC	15	(1943)	659
		-	-	FC	Linnett	TFS	41	(1945)	223
		5-8 μ	-	C_6H_6 derivatives	Depaigne	JPR	7	(1946)	33
		5-6 μ	L	Spec	Young	AC	23	(1951)	709

		700-1800	L,S	Freq, I	Randle	JCS	-	(1952)	4153
		-	Sol	Freq, Struct	Fanta	JACS	75	(1953)	737
		100-800	L	Spec	Hallam	N	174	(1954)	134
		10.01-14μ	Sol	Quant analysis	Jackson	JACS	77	(1955)	5625
		625-900	-	Out of plane CH bending vibrations	Margoshes	SA	7	(1955)	14
		-	-	Microwave dispersion	Poley	JCP	23	(1955)	405
		1650-2000	-	Assign, Freq	Whiffen	SA	7	(1955)	253
		12-15μ	-	Freq	Kross	JACS	78	(1956)	1332
		-	-	Dielectric const, Dipole moment	Krishna	TFS	53	(1957)	767
		-	-	Effect as solvent on CH of CHO	Pinchas	AC	29	(1957)	334
		1650-1200	Sol	H bond	Dyall	AJC	11	(1958)	513
		400-6000	L,Sol	Freq	Friedel	JPC	62	(1958)	1341
		1600-1200	Sol	Freq, Ext coefficient	Hambly	AJC	11	(1958)	529
		600-4000	Sol	I	Katritzky	JCS	-	(1958)	4155
		6-8μ	Sol	Freq, I	Conduit	JCS	-	(1959)	3273
		-	-	Out of plane vibration assign	Kakiyuchi	NKZ	80	(1959)	28
		600-1700	L	Spec	Lecompte	CPR	249	(1959)	2443
		-	G	Mol consts	Reinert	ZN	15a	(1960)	85
$C_6H_5NO_2$	p-Nitrosophenol	-	Sol	Freq	Baker	JPC	62	(1958)	744
		3000-3500	S,Sol	H bond	Boll	ACS	12	(1958)	1777
$C_6H_5NO_2$	Phenyl nitrite	2-25μ	G	Iso	Tarte	JCP	20	(1952)	1570
$C_6H_5NO_2$	α-Picolinic acid	-	Sol	Freq	Witkop	JACS	75	(1953)	2572
$C_6H_5NO_2.HCl$	α-Picolinic acid hydrochloride	-	S	Freq	Witkop	JACS	75	(1953)	2572
		2-16μ	S	Spec	Zacharins	JACS	76	(1954)	2908
$C_6H_5NO_2$	Pyridinemonocarboxylic acid	-	Sol	Spec	Yoshida	CPBT	7	(1959)	162
$C_6H_5NO_2S$	3-Carboxamido-1,4-thiapyrone	694-1684	S	I	Tarbell	JACS	76	(1954)	2451
$C_6H_5NO_3$	m-Nitrophenol	6900-7200	Sol	Spec	Wulf	JACS	57	(1935)	1464
		2.6-3.2μ	Sol	Spec, H bond	Gordy	JCP	7	(1939)	167
		1050-18000	-	Spec	Barnes	IEC	15	(1943)	659
		3μ	Sol	Freq	Ingraham	JACS	74	(1952)	2297
		-	-	Absorbance	Bomstein	AC	25	(1953)	512
		-	Sol	Freq	Goulden	SA	6	(1954)	129

		-	Sol	Freq	Bavin	CJC	35	(1957)	1555
		3593	Sol	Freq	Baker	JPC	62	(1958)	744
		3000-3500	S, Sol	H bond	Boll	ACS	12	(1958)	1777
		-	Sol	Freq	Stone	SA	10	(1958)	17
		-	L	Substitution effect	Cabana	JPC	64	(1960)	1941
		-	Sol	Spec	Cardinaud	BSCF	-	(1960)	634
		3500-3800	Sol	Freq, Hammett const	Puttnam	JCS	-	(1960)	5100
$C_6H_5NO_3$	o-Nitrophenol	2500-3600	Sol	Spec, H bond	Buswell	JCP	5	(1937)	501
		2.6-3.2μ	Sol	Spec, H bond	Gordy	JCP	7	(1939)	167
		-	-	H bond	Rodebush	JPC	43	(1939)	219
		1300-1800	-	Spec	Barnes	IEC	15	(1943)	659
		650-3600	-	Spec, Freq assign	Francel	JACS	74	(1952)	1265
		-	Sol	H bond	Tsuboi	BCSJ	25	(1952)	60
		-	-	Absorbance	Bomstein	AC	25	(1953)	512
		2.7-3.0μ	Sol	H bond, Freq	Baker	JACS	80	(1958)	5358
		3000-3500	S, Sol	H bond	Boll	ACS	12	(1958)	1777
		3μ	Sol	Freq, H bond	Flett	SA	10	(1958)	21
		3200-3800	Sol	Solvent effect, Freq, H bond	Bellamy	TFS	55	(1959)	220
		800-1600	-	I, Ext coefficient	Katritzky	JCS	-	(1959)	3670
		-	L	Substitution effect	Cabana	JPC	64	(1960)	1941
		-	Sol	Spec	Cardinaud	BSCF	-	(1960)	734
		-	Sol, L	H bond, Freq	Reeves	CJC	38	(1960)	1249
$C_6H_5NO_3$	p-Nitrophenol	2.6-3.2μ	Sol	Spec, H bond	Gordy	JCP	7	(1939)	167
		1100-1800	-	Spec	Barnes	IEC	15	(1943)	659
		-	Sol	Freq	Ingraham	JACS	74	(1952)	2297
		-	-	Absorbance	Bomstein	AC	25	(1953)	512
		-	Sol	Freq	Goulden	SA	6	(1954)	129
		1300-1600	S, Sol	Struct	Kross	JACS	78	(1956)	4225
		3μ	Sol	Freq, I	Tsubomura	JCP	24	(1956)	927
		-	Sol	Freq	Bavin	CJC	35	(1957)	1555
		3585	Sol	Freq	Baker	JPC	62	(1958)	744
		3000-3500	S, Sol	H bond	Boll	ACS	12	(1958)	1777
		3μ	Sol	Freq, H bond	Flett	SA	10	(1958)	21
		-	Sol	Freq	Stone	SA	10	(1958)	17
		3.5-5.5μ	Sol	H bond	Bell	JCP	31	(1959)	1158
		3200-3800	Sol	Freq, H bond	Bellamy	TFS	55	(1959)	220
		700-1700	Sol	Freq assign	Katritzky	JCS	-	(1959)	2051
		700-1700	Sol	I	Katritzky	JCS	-	(1959)	2058
		-	L	Substitution effect	Cabana	JPC	64	(1960)	1941
		-	Sol	Spec	Cardinaud	BSCF	-	(1960)	634

		5-15 μ	S	I, Freq	Lippincott	SA	16 (1960)	58
		3500-3800	Sol	Freq, Hammett const	Puttnam	JCS	- (1960)	5100
$C_6H_5NO_3S$	5-Nitro-2-acetylthiophene	-	-	Spec	Otsuji	NKZ	80 (1959)	1199
$C_6H_5NO_4$	2,3-Dicarboxypyrrole	-	S,Sol	Spec	Scrocco	AAN	20 (1956)	795
$C_6H_5NO_4$	2,5-Dicarboxypyrrole	-	S,Sol	Spec	Scrocco	AAN	20 (1956)	795
$C_6H_5NO_4$	3,4-Dicarboxypyrrole	-	S,Sol	Spec	Scrocco	AAN	20 (1956)	795
$C_6H_5NO_4$	p-Nitrobenzoic acid	650-900	L,Sol	CH out of plane	Yoshida	CPBT	8 (1960)	389
$C_6H_5NO_4$	3-Nitrocatechol	6800-7100	Sol	Spec, H bond	Hilbert	JACS	58 (1936)	548
$C_6H_5NO_4$	4-Nitrocatechol	3 μ	Sol	Freq, Hammett const	Ingraham	JACS	74 (1952)	2297
$C_6H_5NO_4$	2-Nitroresorcinol	650-3600	-	Spec, Freq assign	Francel	JACS	74 (1952)	1265
$C_6H_5NO_5$	Methyl 5-nitro-2-furate	2-22 μ	S	Spec, Assign	Daasch	CIL	- (1958)	1113
$C_6H_5NO_5$	Nitrophloroglucinol	2-10 μ	-	Spec, Group freq	Dubiel	JOC	19 (1954)	1359
$C_6H_5N_3$	Benzotriazole	650-1000	-	Freq	Binder	JACS	81 (1959)	3608
		-	S	Freq, H bond	O'Sullivan	JCS	- (1960)	3653
$C_6H_5N_3$	Benzazide	2000-2200	S	Freq	Lieber	JOC	24 (1959)	1014
$C_6H_5N_3O_4$	2,3-Dinitroaniline	-	Sol	Freq, H bond	Dyall	CIL	- (1958)	262
		1250-3600	Sol	Freq, H bond	Dyall	AJC	11 (1958)	513
		8000-3600	Sol	Freq	Hambly	AJC	11 (1958)	513
$C_6H_5N_3O_4$	2,4-Dinitroaniline	1250-3600	Sol	Freq, H bond	Dyall	AJC	11 (1958)	513
		3000-3600	Sol	Freq	Hambly	AJC	11 (1958)	529
		1400-1600	Sol	Freq	Moritz	SA	15 (1959)	242
$C_6H_5N_3O_4$	2,6-Dinitroaniline	-	Sol	Freq, H bond	Dyall	CIL	- (1958)	262
		1250-3600	Sol	Freq, H bond	Dyall	AJC	11 (1958)	513
		3000-3600	Sol	Freq, H bond	Hambly	AJC	11 (1958)	513
$C_6H_5O_3B$	o-Phenylenehydrogenborate	6-14 μ	L,S	Assign, Struct	Blau	JCS	- (1960)	380

C_6H_6	Benzene	-	L	Perm to heat rays	Rubens	WA	64	(1898) 602
		52 μ	L	Transparency	Hollmgel	PR	11	(1918) 505
		0.8-2.0 μ	L	Magnetic rotation	Ingersoll	JOSA	6	(1922) 663
		-	L	Spec	McVicker	JCS	123	(1923) 642
		3.3μ	L	Freq	Meyer	PR	21	(1923) 712
		0-2.5μ	L	Spec	Ellis	PR	23	(1924) 48
		1-12μ	L	Spec	Bell	JACS	47	(1925) 2811
		0.589-14μ	L	Spec	Ellis	PR	27	(1926) 298
		0.87-0.71μ	L	Spec	Barnes	JOSA	15	(1927) 331
		-	L	Photo recording on IR	Barnes	JACS	49	(1927) 2034
		0.8-2.8μ	L	Spec	Ellis	JACS	49	(1927) 347
		2975-3175	G	Wave number difference	Meyer	JOSA	15	(1927) 257
		-	-	Spec	Andrews	CR	5	(1928) 533
		1.11-1.17μ	L	Spec, Freq	Barnes	PR	32	(1928) 618
		0.59-2.8μ	L	IR correlation	Ellis	PR	32	(1928) 906
		1.1-1.2μ	L	Band shift	Barnes	JACS	51	(1929) 1750
		-	-	CH freq	Bonino	TFS	25	(1929) 876
		1-7.5μ	L	Spec, Freq	Daugherty	PR	34	(1929) 1549
		-	-	CH linkage heat	Ellis	PR	33	(1929) 27
		-	L	Theoretical	Ellis	PR	33	(1929) 625
		-	-	CH overtones	Ellis	TFS	25	(1929) 888
		3.1-3.6μ	L	Spec, Freq	Barnes	PR	35	(1930) 1524
		3-4μ	L	Spec	Barnes	PR	36	(1930) 296
		-	-	Mechanical models of normal vibrations	Kattering	PR	36	(1930) 531
		1.1-1.6μ	G,L	Spec	McAlister	PR	36	(1930) 1799
		-	L	Freq	Venkateswaran	JPC	34	(1930) 145
		-	-	Vibration theory	Yates	PR	36	(1930) 563
		8772	-	C_6H_6 derivatives	Brackett	PR	37	(1931) 108
		-	-	Vibrations	Shapiro	PR	38	(1931) 1170
		6.7-33μ	G	Transmission	Strong	PR	37	(1931) 1565
		6.75μ	L,G	Spec	Silverman	PR	41	(1932) 486
		1-30μ	G	Spec	Kattering	P	4	(1933) 39
		2.19-2.46μ	L,S,G	Spec	LeberKnight	PR	43	(1933) 967
		1.1-1.8μ	L	Spec	Liddle	JRNB	11	(1933) 599
		-	G	Thermo	Mayer	JACS	55	(1933) 37
		-	-	Freq	Wilson	PR	45	(1934) 706
		605-3080	-	Assignment, IR	Wilson	PR	46	(1934) 146
		1-55μ	G	Spec	Barnes	JCP	3	(1935) 446
		40-135	G,L	Spec, Assign	Barnes	PR	47	(1935) 129
		-	G	Vibrations	Duncan	JCP	3	(1935) 384
		-	-	Vibrating mechanical models	Murray	JCP	3	(1935) 180

-	-	Freq assign	Teets	JCP	3	(1935)	175
-	-	Quant mech	Wilson	JCP	3	(1935)	276
-	L	Struct	Angus	JCS	-	(1936)	912
-	L	Spec	Angus	JCS	-	(1936)	925
-	-	Struct, Freq	Angus	JCS	-	(1936)	966
-	-	Freq assign	Angus	JCS	-	(1936)	971
1-22μ	G,L	Spec	Bailey	JCS	-	(1936)	931
52-152μ	L	Trans dispers	Cartwright	PRS	154	(1936)	138
-	L	Direct deuteration	Ingold	JCS	-	(1936)	915
-	-	Thermo	Kassel	JCP	7	(1936)	276
2-4.2μ	L	Transmission curves	Plyler	PR	49	(1936)	215
3-4μ	L	Solvent effect	Williams	PR	50	(1936)	719
52-152μ	L	Ext coefficient	Errera	TFS	33	(1937)	120
-	-	Effect as solvent on OH band	Gordy	JCP	5	(1937)	284
5.6-6.0μ	-	H bond, Spec	Gordy	JCP	5	(1937)	284
-	-	Struct, Spec	Lord	JCS	-	(1937)	1728
-	-	Thermo, FC	Lord	JPC	41	(1937)	149
1-13μ	L	Spec	Plum	JCP	5	(1937)	172
3.22-3.32μ	G,L,Sol	Spec	Fox	PRS	167	(1938)	257
600-1700	L,G	Spec, Assign	Ingold	PRS	169	(1938)	149
.	-	Freq, Struct	Simons	JAP	9	(1938)	781
-	-	Spec	Crawford	JCP	7	(1939)	223
-	-	Solvent effect	Gordy	JCP	7	(1939)	93
-	-	Quant mech	Mullikan	JCP	7	(1939)	121
-	-	Quant mech	Mullikan	JCP	7	(1939)	353
-	-	Quant mech	Mullikan	JCP	7	(1939)	20
-	-	Vibration analysis	Sponer	JCP	7	(1939)	207
3.2-3.4μ	Sol	HC band	Wall	JACS	61	(1939)	1053
-	L	Dispersion of magnetic double refr	Davis	JOSA	30	(1940)	488
3.2-3.4μ	Sol	CH band	Wall	JACS	62	(1940)	2225
-	-	Assign	Baner	CR	31	(1942)	43
1250-1800	-	Spec	Barnes	IEC	15	(1943)	659
-	-	Thermo, Freq	Pitzer	JACS	65	(1943)	803
2-16μ	G	Spec	Turkevich	JCP	11	(1943)	328
-	-	Vibrations	Kline	JCP	12	(1944)	300
2-14μ	L	Prism dispersion	Wright	RSI	15	(1944)	22
-	-	Freq, FC	Bell	TFS	41	(1945)	293
-	-	Thermo	Brickudde	JCP	13	(1945)	547
-	L	Analysis	Fouss	RSI	16	(1945)	53
-	-	Product rule	Halverson	JCP	13	(1945)	533
-	-	FC	Linnett	TFS	41	(1945)	223
2-30μ	L	Spec, Use as solvent	Forkington	TFS	41	(1945)	184
-	-	Struct	Bailey	JCS	-	(1946)	222

5-8μ	L	Vibration analysis	Depaign	JPR	7	(1946)	33
-	-	Analysis	Fred	AC	18	(1946)	603
-	-	FC	Gordy	JCP	14	(1946)	305
3-16.7μ	S,L,G	Spec, Assign	Halford	JCP	14	(1946)	141
-	-	Inactive fundamentals	Herzfeld	JCS	-	(1946)	316
-	-	Quant mech	Miller	JCP	14	(1946)	282
-	-	FC	Walsh	TFS	42	(1946)	779
-	-	Comparison with C_6H_6	Carpenter	JCP	15	(1947)	99
-	-	Secular equation computer	Frost	JCP	15	(1947)	383
-	-	Quant mech	Griffing	JCP	15	(1947)	421
-	-	Vibration analysis	Halverson	RMP	19	(1947)	87
-	-	Thermo	Scott	JCP	15	(1947)	565
-	-	FC	Walsh	TFS	43	(1947)	60
-	-	Freq, FC	Westheimer	JCP	15	(1947)	252
2-15μ	L	Spec	Wild	RSI	18	(1947)	436
12-14μ	Sol	Freq, I	Bell	PRS	192	(1948)	498
-	-	Quant mech	Coulson	PRS	193	(1948)	456
24-40μ	-	Freq	Plyler	JCP	16	(1948)	1008
3.2-3.6μ	-	Analysis	Sailer	AC	20	(1948)	812
3-15μ	L,G	Freq, assign	Barchewitz	JPR	10	(1949)	1
3-5μ	L	Freq assign	Causse	JPR	10	(1949)	49
-	-	Assign, FC	Crawford	JCP	17	(1949)	249
-	-	Planar vibrations	Crawford	JCP	17	(1949)	249
-	-	Quant mech	Crawford	JCP	17	(1949)	72
-	-	Ring-twisting const	Crawford	JCP	17	(1949)	726
660-1200	S	Freq	Hainer	PR	76	(1949)	473
8000-9000	Sol	Analysis	Hibbard	AC	21	(1949)	486
-	-	Analysis	Ipatieff	JACS	71	(1949)	2685
650-5000	L,S	Spec, Assign	Mair	JCP	17	(1949)	1236
-	-	Vib analysis, Spec	Shull	JCP	17	(1949)	295
-	-	Freq	Brownlie	JCS	-	(1950)	3062
-	-	FC	Cole	TFS	46	(1950)	103
-	-	Theoretical Frank-Condon principle	Craig	JCS	-	(1950)	2146
-	-	Freq, Thermo	Hornig	JACS	72	(1950)	5772
700-5000	L	Spec	Savitzky	RSI	21	(1950)	203
-	S	Entropy	Ichishima	JCP	19	(1951)	388
3.4μ	Sol	Analysis	Simard	AC	23	(1951)	1384
2-15μ	L	Spec	Tetlow	JSI	28	(1951)	161
-	-	FC	Torkington	PRS	206	(1951)	17
-	-	I	Crawford	JCP	20	(1952)	977
15.5-25μ	L	Transparent solvent	Marrison	JSI	29	(1952)	233
-	-	Spec	Mecke	JCP	20	(1952)	1935

2-15μ	L	Spec	Pristera	APS	6	(1952)	29
980-1090	G,L	Spec	Ramsay	JACS	74	(1952)	72
2.8-3.8μ	L	Analysis	Robinson	AC	24	(1952)	619
2400-2800	L,Sol	Spec, H bond	Tamres	JACS	74	(1952)	3375
-	Sol	Analysis	Williams	AC	24	(1952)	1911
3.27-3.31μ	-	Freq	Woodward	JACS	74	(1952)	3458
2-16μ	L	Spec	Anderson	JOSA	43	(1953)	221
-	L	Mixture with CCl_4	Bellamy	JAPC	3	(1953)	421
-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
-	-	Vibrations	Duchesne	JCP	21	(1953)	2005
700-1000	L	Spec	Hales	JSI	30	(1953)	52
-	G	Analysis	Chapman	AC	26	(1954)	435
700-3300	-	Spec	Dixon	JPC	58	(1954)	430
640-1400	Sol	Spec	Haller	JCP	22	(1954)	720
0.6-3.0μ	Sol,L	Spec, I, Assign	Kaye	SA	6	(1954)	257
8-13μ	-	Spec not shown, Struct	Klemm	JACS	76	(1954)	1688
-	Sol	Analysis	Kovacic	JACS	76	(1954)	5491
2-15μ	L	Spec	Lauring	JOC	19	(1954)	1171
-	-	Analysis, Freq	Martin	AC	26	(1954)	1886
2-8μ	-	Spec	Ahlers	JSI	32	(1955)	61
-	-	Freq	Anderse	JCP	23	(1955)	1047
-	-	Analysis	Buswell	JACS	77	(1955)	2766
0.21-0.3μ	G	Spect with Perkin-Elmer	Coates	APS	9	(1955)	14
-	-	Freq	Coulson	JCS	-	(1955)	1813
-	-	I	Eggers	JCP	23	(1955)	221
11-14μ	Sol	Spec	Fair	AC	27	(1955)	1886
671-3099	-	I	Fateley	JACS	77	(1955)	249
-	-	Ident	Hine	JACS	77	(1955)	594
-	-	Vibrations	Morino	JCP	23	(1955)	737
2-15μ	L	Spec	Pristera	AC	27	(1955)	217
-	-	Temp effect	Slowinski	JOSA	45	(1955)	396
650-4000	L	Spec	Zwerdling	JCP	23	(1955)	2221
2-15μ	S	IR, Assign	Zwerdling	PR	98	(1955)	243
-	-	FC	Lord	JCP	25	(1956)	1252
300-750	G	Spec, Assign	Miller	JCP	24	(1956)	996
2-15μ	G	Spec, Threshold values	Pierson	AC	28	(1956)	1218
-	Sol	Band I	Randle	TFS	52	(1956)	9
3-4μ	L,Sol	Stretch freq	Tallent	AC	28	(1956)	953
-	Sol	Solution sensitivity	Ferguson	JCP	26	(1957)	1265
14-16μ	G	Spec, Linearity test	Friedel	AC	29	(1957)	1362
1-14μ	-	Refractive index	Jaffe	JOSA	47	(1957)	782
13.9-15μ	Sol	Quant anal	Kiley	AC	29	(1957)	1896
650-700	G	Spec	Lord	JOSA	47	(1957)	689
15-150μ	-	Spec, Struct	Lord	JOSA	47	(1957)	340

		2-38 μ	L	Spec, Freq, Assign	Plyler	JRNB	58	(1957)	255
		-	-	Characteristic freq	Podall	AC	29	(1957)	1423
		1450-750	Sol	I, Solvent effect	Thompson	JCS	-	(1957)	1658
		-	-	Calculation of B" & D_J	Danti	SA	13	(1958)	180
		1400-1600	Sol	I	Katritzky	JCS	-	(1958)	4162
		-	L	I, Refractive index	Person	JCP	28	(1958)	319
		15-35 μ	S	Spec, Struct	Bentley	SA	15	(1959)	165
		15-14 μ	Sol	Anal	Cirillo	AC	31	(1959)	959
		650-4000	Sol,L	Spec, Freq, H bond	Heinert	JACS	81	(1959)	3933
		670-3100	L	I, Absorption bands	Hisatsune	JCP	30	(1959)	848
		11-15 μ	Sol	Anal	Jackobsen	AC	31	(1959)	1600
		-	-	NCA	Kakiyuchi	NKZ	80	(1959)	21
		-	-	NCA, Assign	Kovner	OS	7	(1959)	751
		600-1700	L	Spec	Lecompte	CPR	249	(1959)	2443
		-	-	I	Swenson	DA	19	(1959)	3153
		1025-1045	S	Temp effect	Swenson	JCP	31	(1959)	1324
		3400-3800	Sol	H bond	West	JACS	81	(1959)	1614
		-	-	NCA, Assign	Califano	SA	16	(1960)	889
		700-4000	L,Sol	Freq, Ext coeff	Demaine	CJC	38	(1960)	1921
		650-4000	L	IR, Spec	Dows	JCP	32	(1960)	1581
		1500-2000	G	I	Dunstan	JCS	-	(1960)	5221
		3-15 μ	L	I, Solvent effect	Hisatsune	JCP	32	(1960)	565
		-	S	Assign, Splitting	Person	JCP	32	(1960)	1268
		970-1080	S	I	Person	JCS	33	(1960)	233
		2-12 μ	L	Refractive index, I	Schatz	JCP	32	(1960)	894
C_6H_6	Benzene (isotopic)	5-8 μ	L	Vib anal	Depaigne	JPR	7	(1946)	38
		-	-	Assign	Mair	JCP	17	(1949)	1236
C_6H_6	Butadienylacetylene	781-3346	G	Spec, Table, Group freq	Georgieff	JACS	76	(1954)	5494
C_6H_6	Dimethyldiacetylene	-	-	FC, Bond order	Walsh	TFS	42	(1946)	779
		-	-	Quant mech	Meister	JCP	15	(1947)	349
		675-6000	Sol,G	Freq	Cleveland	JCP	18	(1950)	355
		353-5861	G,Sol	IR, Assign	Ferigle	JCP	20	(1952)	1928
		-	-	Band freq	Weber	JCP	21	(1953)	1613
		-	-	NCA	Weber	JCP	23	(1955)	579
C_6H_6	Divinylacetylene	673-3120	G,L, Sol	Spec, Table, Group freq	Georgieff	JACS	76	(1954)	5494
C_6H_6DN	Aniline-N-d_1	400-3800	G,L, Sol	Struct, Assign, Freq	Evans	SA	16	(1960)	428

C_6H_6DN	Aniline-m-d_1	-	L	Bond freq, I	Dauber	JACS	77	(1955)	2886
$C_6H_6D_2O_4$	Isopropylidene malonate-d_2	3-6 μ	S,Sol	Spec	Abramovitch	CJC	37	(1959)	361
$C_6H_6D_6O_2$	2,2,3,4,5,5-Caproic acid-d_6	-	-	Spec	Buuhoi	BSCF	-	(1960)	1586
$C_6H_6D_6O_2$	Methylvaleric acid-2,2,3,4,5,5-d_6	-	-	Spec	Buuhoi	BSCF	-	(1960)	1586
$C_6H_6D_6O_2$	Methylvaleric acid-2,2,4,4,5,5-d_6	-	-	Spec	Buuhoi	BSCF	-	(1960)	1586
C_6H_6BrN	m-Bromoaniline	-	-	Group freq	Califano	GCI	86	(1956)	1014
		2000-4000	S,Sol,L	Spec	Califano	GCI	87	(1957)	805
		2600-800	Sol	NH bond freq, Struct	Whetsel	AC	30	(1958)	1598
		700-1700	Sol	Position variation, I	Katritzky	JCS	-	(1959)	3674
		-	-	Freq, Assign, Struct	Katritzky	JCS	-	(1959)	2058
C_6H_6BrN	o-Bromoaniline	2600-800	Sol	NH band freq, Struct	Whetsel	AC	30	(1958)	1598
		800-1600	-	I, Ext coeff	Katritzky	JCS	-	(1959)	3670
		-	-	Freq, Assign, Struct	Katritzky	JCS	-	(1959)	3674
C_6H_6BrN	p-Bromoaniline	-	-	Ident	Weisblat	JACS	75	(1953)	3630
		-	-	Group freq	Califano	GCI	86	(1956)	1014
		-	Sol	Freq, FC	Krueger	PRS	243	(1957)	143
		700-1700	Sol	Freq, Assign, I	Katritzky	JCS	-	(1959)	2051
		-	-	Freq, Assign, Struct	Katritzky	JCS	-	(1959)	3674
$C_6H_6BrO_3As$	o-Bromophenylarsonic acid	600-4000	S	Group study	Braunhotz	JCS	-	(1959)	868
$C_6H_6Br_2$	Benzene, bromine complex	-	-	Interactions study	Person	JCP	27	(1957)	1211
		-	Sol	I	Ferguson	JACS	82	(1960)	3268
C_6H_6ClI	Benzene, iodine monochloride	-	Sol	Mol const	Popov	JACS	82	(1960)	1850
C_6H_6ClN	m-Chloroaniline	2.6-3.1 μ	L	H bond	Gordy	JACS	62	(1940)	497
		1050-2000	-	Spec	Barnes	IEC	15	(1943)	659
		700-1000	S,Sol	CH out of plane	Bellamy	JCS	-	(1955)	2818
		-	-	Group freq	Califano	GCI	86	(1956)	1014
		2000-4000	S,Sol,	Spec	Califano	GCI	87	(1957)	805

		-	Sol	Freq, FC	Krueger	PRS	243	(1957)	143
		2600-800	Sol	NH band freq, Struct	Whetsel	AC	30	(1958)	1598
		700-1700	Sol	Position variation, I	Katritzky	JCS	-	(1959)	2058
		-	-	Freq, Assign, Struct	Katritzky	JCS	-	(1959)	3674
		-	Sol	Stretch freq	Bryson	JACS	82	(1960)	4858
		1.4-1.6μ	Sol	Solvent effect	Whetsel	AC	32	(1960)	1281
C_6H_6ClN	o-Chloroaniline	6400-7000	Sol	Spec, Group freq, Anal	Wulf	JACS	57	(1935)	1464
		2.6-3.1μ	L	H bond	Gordy	JACS	62	(1940)	497
		1050-1850	-	Spec	Barnes	IEC	15	(1943)	659
		-	Sol	Resolution	Barnes	JAP	16	(1945)	77
		2100-1400	Sol	Anal, Struct	Whetsel	AC	30	(1958)	1594
		2600-800	Sol	Position variation, I	Whetsel	AC	30	(1958)	1598
		800-1600	-	I, Ext coeff	Katritzky	JCS	-	(1959)	3670
		-	-	Freq, Assign, Struct	Katritzky	JCS	-	(1959)	3674
		1.4-1.6μ	Sol	Solvent effect	Whetsel	AC	32	(1960)	1281
C_6H_6ClN	p-Chloroaniline	1050-1800	-	Spec	Barnes	IEC	15	(1943)	659
		-	Sol	Resolution	Barnes	JAP	16	(1945)	77
		3415-3500	Sol	Freq, Chem properties	Flett	TFS	44	(1948)	767
		700-1000	S,Sol	CH out of plane	Bellamy	JCS	-	(1955)	2818
		2000-4000	S,L,Sol	Spec	Califano	GCI	87	(1957)	805
		-	-	Group freq	Califano	GCI	86	(1956)	1014
		-	Sol	Freq, FC	Krueger	PRS	243	(1957)	143
		2600-800	Sol	NH band freq, Struct	Whetsel	AC	30	(1958)	1598
		700-1700	Sol	Freq, Assign	Katritzky	JCS	-	(1959)	2051
		-	-	Freq, Assign, Struct	Katritzky	JCS	-	(1959)	3674
$C_6H_6ClO_3P$	p-Chlorophenylphosphonic acid	2-21μ	S	Spec, Struct anal	Daasch	AC	23	(1951)	853
		-	-	Ident	Lecher	JACS	76	(1954)	1045
		600-4000	S	Group presence P(:O)OH	Braunholtz	JCS	-	(1959)	868
$C_6H_6ClO_3AS$	p-Chlorophenylarsonic acid	600-4000	S	Group study	Braunholtz	JCS	-	(1959)	868
$C_6H_6Cl_2$	Benzene-Chlorine complex	-	Sol	I	Ferguson	JACS	82	(1960)	3268
$C_6H_6Cl_2O_4$	3,4-Dichloro-cis-1,2-cyclobutanedicarboxylic acid	-	S	Ident, Spec	Cope	JACS	74	(1952)	168
$C_6H_6Cl_2O_4$	Dimethyl dichloro-fumarate	-	-	Group freq	Eldred	JACS	75	(1953)	4338

$C_6H_6Cl_2O_4$	Dimethyl dichloromaleate	-	-	Group freq	Eldred	JACS	75	(1953)	4338
$C_6H_6Cl_2Si$	Phenyldichlorosilane	2050-2250	Sol	Struct, Electronegativity	Smith	SA	15	(1959)	412
		2-30 μ	Sol	Spec, Struct, Anal	Grenoble	APS	14	(1960)	85
$C_6H_6Cl_4$	α-Benzene tetrachloride	2-23 μ	Sol	Spec	Colingaert	JACS	73	(1951)	5224
		2-16 μ	Sol	Spec, Anal	Orloff	JACS	75	(1953)	4243
		-	Sol	Quant anal, Iso	Hudson	AC	29	(1957)	1718
$C_6H_6Cl_4$	β-Benzene tetrachloride	2-16 μ	Sol	Spec, Anal	Orloff	JACS	75	(1953)	4243
$C_6H_6Cl_4$	γ-Benzene tetrachloride	2-16 μ	Sol	Spec, Anal	Orloff	JACS	75	(1953)	4243
$C_6H_6Cl_4$	δ-Benzene tetrachloride	2-16 μ	Sol	Spec, Anal	Orloff	JACS	75	(1953)	4243
$C_6H_6Cl_4$	ξ-Benzene tetrachloride	2-16 μ	Sol	Spec, Anal	Orloff	JACS	75	(1953)	4243
$C_6H_6Cl_4O$	2,2,6,6-Tetrachlorocyclo-hexanone	-	-	Shift, Table	Corey	JACS	77	(1955)	5418
$C_6H_6Cl_4O_4$	Tetrachloroadipic acid	-	-	Ident, Struct	Kolka	JACS	76	(1954)	1244
$C_6H_6Cl_6$	α-Benzene hexachloride	2-24 μ	Sol	Spec, Anal	Daasch	AC	19	(1947)	779
		700-1400	Sol	Spec, Anal	Whiffen	JCS	-	(1948)	1420
		-	-	Band freq	Marrison	JCS	-	(1951)	1614
		-	-	Anal, Iso	Whetstone	JACS	75	(1953)	1768
		-	-	Anal, Iso	Mecke	ZE	58	(1954)	1
		-	Sol	Quant anal	Hudson	AC	29	(1957)	1718
		1400-650	Sol	Quant anal	Mcdonald	AC	29	(1957)	339
$C_6H_6Cl_6$	β-Benzene hexachloride	2-24 μ	Sol	Spec, Anal	Daasch	AC	19	(1947)	779
		700-1400	Sol	Spec, Anal	Whiffen	JCS	-	(1948)	1420
		-	-	Band freq	Marrison	JCS	-	(1951)	1614
		-	-	Anal, Iso	Whetstone	JACS	75	(1953)	1768
		-	-	Anal, Iso	Mecke	ZE	58	(1954)	1
$C_6H_6Cl_6$	γ-Benzene hexachloride	2-24 μ	Sol	Spec, Anal	Daasch	AC	19	(1947)	779
		700-1400	Sol	Spec, Anal	Whiffen	JCS	-	(1948)	1420
		2-15 μ	-	Spec	Cupples	AC	21	(1949)	630
		3-15 μ	S	Spec, Anal	Trenner	AC	21	(1949)	285
		-	-	Band freq	Marrison	JCS	-	(1951)	1614
		2-15.5 μ	Sol	Spec	Garhart	AC	24	(1952)	851
		-	-	Anal, Spec	Trenner	APS	7	(1953)	166
		-	-	Anal, Iso	Whetstone	JACS	75	(1953)	1768

		-	-	Anal, Iso	Mecke	ZE	58	(1954)	1
		600-900	Sol	Quant anal	Braid	AC	29	(1957)	1625
		14.55-10.9 μ	Sol	Quant anal, Iso	Hudson	AC	29	(1957)	1718
		1450-600	Sol	Quant anal	Mcdonald	AC	29	(1957)	339
		7.5-10 μ	Sol	Iso	Cupples	AC	31	(1959)	967
$C_6H_6Cl_6$	δ-Benzene hexachloride	2-24 μ	Sol	Spec, Anal	Daasch	AC	19	(1947)	779
		700-1400	Sol	Spec, Anal	Whiffen	JCS	-	(1948)	1420
		-	-	Band freq	Marrison	JCS	-	(1951)	1614
		-	-	Anal, Iso	Whetstone	JACS	75	(1953)	1768
		-	-	Anal, Iso	Mecke	ZE	58	(1954)	1
		-	Sol	Quant anal, Iso	Hudson	AC	29	(1957)	339
		1400-650	Sol	Quant anal	Mcdonald	AC	29	(1957)	1718
$C_6H_6Cl_6$	ϵ-Benzene hexachloride	2-24 μ	Sol	Spec, Anal	Daasch	AC	19	(1947)	779
		-	-	Anal, Iso	Whetstone	JACS	75	(1953)	1768
		-	-	Anal, Iso	Mecke	ZE	58	(1954)	1
		-	Sol	Quant anal, Iso	Hudson	AC	29	(1957)	1718
$C_6H_6Cl_6$	η-Benzene hexachloride	2-16 μ	Sol	Spec, Struct	Kolka	JACS	76	(1954)	3940
C_6H_6FN	m-Fluoroaniline	-	-	Group freq	Califano	GCI	86	(1956)	1014
		-	Sol	Freq, FC	Krueger	PRS	243	(1957)	143
		-	Sol	NH freq	Bryson	JACS	82	(1960)	4858
C_6H_6FN	p-Fluoroaniline	-	-	Group freq	Califano	GCI	86	(1956)	1014
		-	Sol	Freq, FC	Krueger	PRS	243	(1957)	143
$C_6H_6F_4O_2$	1,2-Dimethoxy-3,3,4,4-tetrafluorocyclobutene	2-15 μ	L	Spec, Struct anal	Park	JACS	71	(1949)	2337
$C_6H_6F_7NO_2$	Ethyl N-heptafluoropropylcarbamate	2.5-6 μ	L,G	Freq assign	Barr	JCS	-	(1956)	3428
$C_6H_6F_8O$	3,3,4,5,5,6,6,6-Octafluorohexan-2-ol	-	-	Ident	Lazerte	JACS	77	(1955)	910
C_6H_6IN	m-Iodoaniline	-	-	Group freq	Califano	GCI	86	(1956)	1014
C_6H_6IN	p-Iodoaniline	-	-	Group freq	Califano	GCI	86	(1956)	1014
$C_6H_6I_2$	Benzene-iodine complex	-	Sol	I	Ferguson	JACS	82	(1960)	3268

C_6H_6NO	6-Methyl-2-pyridone	-	S, Sol	Spec	Gibson	JCS	- (1955) 4340
C_6H_6NS	N-Methylthiopyridone-2	1100-1150	Sol	Band study	Spinner	JOC	23 (1958) 2037
C_6H_6NS	N-Methylthiopyridone-4	1100-1150	Sol	Band study	Spinner	JOC	23 (1958) 2037
$C_6H_6N_2$	2-Cyanomethyl-3-cyano -1-propene	-	-	Bond freq	Kitson	AC	24 (1952) 334
$C_6H_6N_2$	1,2-Dicyano-1-butene	-	-	Bond freq	Kitson	AC	24 (1952) 334
$C_6H_6N_2$	1,2-Dicyano-2-butene	-	-	Bond freq	Kitson	AC	24 (1952) 334
$C_6H_6N_2$	cis-1,4-Dicyano-1-butene	-	-	Bond freq	Kitson	AC	24 (1952) 334
$C_6H_6N_2$	trans-1,4-Dicyano-2-butene	-	-	Bond freq	Kitson	AC	24 (1952) 334
$C_6H_6N_2$	2,3-Dicyano-2-butene	-	-	Bond freq	Kitson	AC	24 (1952) 334
$C_6H_6N_2$	1,3-Dicyano-2-methyl -1-propene	-	-	Bond freq	Kitson	AC	24 (1952) 334
$C_6H_6N_2$	Dimethylfumarodinitrile	-	Sol	Band freq, I	Felton	JCS	- (1955) 2170
$C_6H_6N_2$	Dimethylmaleidinitrile	-	Sol	Band freq	Felton	JCS	- (1955) 2170
$C_6H_6N_2$	4-Vinylpyrimidine	-	L	Group freq	Overberger	JACS	76 (1954) 1879
$C_6H_6N_2O$	Nicotinamide	-	S	H bond	Pimental	JCP	24 (1956) 639
$C_6H_6N_2OS_2.HCL.H_2O$	Pyrrothine hydrochloride hydrate	2-16 μ	S	Spec	Celmer	JACS	77 (1955) 2861
$C_6H_6N_2O_2$	Acetyl cyanide dimer	4000-750	-	Spec, Struct anal	Marvel	JACS	71 (1949) 34
$C_6H_6N_2O_2$	m-Nitroaniline	6500-7100	Sol	Spec, Group anal	Wulf	JACS	57 (1935) 1464
		1050-1800	-	Spec	Barnes	IEC	15 (1943) 659
		3420-3510	Sol	Freq, Chem prop	Flett	TFS	44 (1948) 767
		700-1800	L, S	I, Freq	Randle	JCS	- (1952) 4153
		-	-	Absorbance study	Bomstein	AC	25 (1953) 512
		700-1000	S, Sol	CH out of plane	Bellamy	JCS	- (1955) 2818
		-	Sol	Freq, FC	Krueger	PRS	243 (1957) 143
		3600-1250	Sol	H bond	Dyall	AJC	11 (1958) 513

		-	Sol	Freq, H bond	Dyall	CIL	-	(1958)	262
		3000-3600	Sol	Freq	Hambly	AJC	11	(1958)	529
		2-8μ	Sol	Freq	Ubranski	CIL	-	(1958)	1206
		2600-800	-	NH band freq, Struct	Whetsel	AC	30	(1958)	1598
		-	L	Spec	Karagounis	ZE	63	(1959)	1120
		700-1700	Sol	Position variation, I	Katritzky	JCS	-	(1959)	2058
		-	-	Freq, Assign, Struct	Katritzky	JCS	-	(1959)	3674
$C_6H_6N_2O_2$	o-Nitroaniline	6400-7100	Sol	Spec, Group anal	Wulf	JACS	57	(1935)	1464
		2.6-3.1μ	Sol	H bond	Gordy	JACS	62	(1940)	497
		1050-1800	-	Spec	Barnes	IEC	15	(1943)	659
		650-3600	-	Spec, Freq	Francel	JACS	74	(1952)	1265
		-	L,S	Struct, Freq, I	Randle	JCS	-	(1952)	4153
		-	-	Absorbance study	Bomstein	AC	25	(1953)	512
		3600-1250	Sol	H bond	Dyall	AJC	11	(1958)	513
		-	Sol	Freq, H bond	Dyall	CIL	-	(1958)	262
		3000-3600	Sol	Freq	Hambly	AJC	11	(1958)	513
		2-8μ	Sol	Freq, H bond	Ubranski	CIL	-	(1958)	1206
		6-8μ	Sol	Freq, I	Conduit	JCS	-	(1959)	3273
		-	L	Spec	Karagounis	ZE	63	(1959)	1120
		800-1600	-	I, Ext coeff	Katritzky	JCS	-	(1959)	3670
		-	-	Freq, Assign, Struct	Katritzky	JCS	-	(1959)	3674
		3000-3500	Sol	H bond	Farmer	SA	16	(1960)	559
$C_6H_6N_2O_2$	p-Nitroaniline	6400-7100	Sol	Spec, Group anal	Wulf	JACS	57	(1935)	1464
		1100-1800	-	Spec	Barnes	IEC	15	(1943)	659
		3436-3535	Sol	Freq, Chem prop	Flett	TFS	44	(1948)	767
		-	Sol	Table, Freq, Struct	Goulden	JCS	-	(1952)	2939
		700-3400	S	IR (polarized), Anal	Mann	PRS	211	(1952)	168
		700-1800	L,S	I, Struct anal	Randle	JCS	-	(1952)	4153
		-	-	Absorbance study	Bomstein	AC	25	(1953)	512
		700-1000	S,Sol	CH out of plane	Bellamy	JCS	-	(1955)	2818
		12-15μ	S,Sol	CH out of phase	Kross	JACS	78	(1956)	1332
		1300-1600	S,Sol	Struct	Kross	JACS	78	(1956)	4225
		-	S	H bond	Pimental	JCP	24	(1956)	639
		-	Sol	Freq, FC, Solvent effect	Krueger	PRS	243	(1957)	143
		3600-1250	Sol	H bond	Dyall	AJC	11	(1958)	513
		-	Sol	Freq, H bond	Dyall	CIL	-	(1958)	262
		3000-3600	Sol	Freq	Hambly	AJC	11	(1958)	513
		2-8μ	Sol	H bond, Freq	Ubranski	CIL	-	(1958)	1206
		2600-800	Sol	NH band, I	Whetsel	AC	30	(1958)	1598
		6-8μ	Sol	Freq, I	Conduit	JCS	-	(1959)	3273
		-	L	Spec	Karagounis	ZE	63	(1959)	1120

		700-1700	Sol	Freq, Assign	Katritzky	JCS	-	(1959)	2051
		-	-	Freq, Assign, Struct	Katritzky	JCS	-	(1959)	3674
$C_6H_6N_2O_2$	3-Pyrazionic acid, methyl ester	1500-2000	Sol	Spec, Group freq	Solomons	JACS	75	(1953)	679
$C_6H_6N_4$	2-Amino-4-methyl-6-cyanopyrimidine	2-25μ	S	Spec, Group freq	Short	JCS	-	(1952)	168
$C_6H_6N_4O$	7,8-Dihydro-6-hydroxy-pteridine	-	-	Ident	Albert	JCS	-	(1952)	1620
$C_6H_6N_4O$	1,6-Dihydro-1-methyl-6-oxopurine	-	Sol	Spec, Freq	Brown	JCS	-	(1957)	682
$C_6H_6N_4O$	3,6-Dihydro-3-methyl-6-oxopurine	-	Sol	Spec, Freq	Brown	JCS	-	(1957)	682
$C_6H_6N_4O$	2-Hydroxy-6-methyl-purine	673-3040	S	Table, I, Group freq	Willits	JACS	77	(1955)	2569
$C_6H_6N_4O$	6-Hydroxy-2-methyl-purine	666-3040	S	Table, I, Group freq	Willits	JACS	77	(1955)	2569
$C_6H_6N_4O$	6-Hydroxy-7-methyl-purine	-	Sol	Struct, Freq	Brown	JCS	-	(1957)	682
		3650-1400	Sol	Spec, Assign, Taut	Mason	JCS	-	(1957)	4874
$C_6H_6N_4O$	6-Hydroxy-9-methyl-purine	-	S,Sol	Freq, Taut	Mason	JCS	-	(1957)	4874
$C_6H_6N_4O$	8-Hydroxy-7-methyl-	-	Sol	Struct, Freq	Brown	JCS	-	(1957)	682
		3650-1400	Sol	Spec, Assign, Taut	Mason	JCS	-	(1957)	4874
$C_6H_6N_4O$	8-Hydroxy-9-methyl-purine	3650-1400	Sol	Spec, Assign, Taut	Mason	JCS	-	(1957)	4874
$C_6H_6N_4O$	6-Methoxypurine	-	Sol	Spec, Freq	Brown	JCS	-	(1957)	682
$C_6H_6N_4O$	8-Methoxypurine	-	Sol	Spec, Freq	Brown	JCS	-	(1957)	682
$C_6H_6N_4O_4$	2,4-Dinitrophenyl-hydrazine	6-15μ	S	Spec, Table, Band freq	Ross	AC	25	(1953)	1288
		1300-3400	L	Spec, Struct	Isherwood	N	175	(1955)	419

$C_6H_6N_4O_4.HCl$	2,4-Dinitrophenylhydrazine hydrochloride	6-15 μ	S	Spec	Ross	AC	25	(1953)	1288
$C_6H_6N_4S$	6-Mercapto-7-methylpurine	-	Sol	Struct, Freq	Brown	JCS	-	(1957)	682
$C_6H_6N_{10}$	Melem	2-15 μ	S	Assign	Frinkelshtein	OS	6	(1959)	33
C_6H_6O	Phenol	1.1-1.8 μ	Sol	Spec, Group freq	Liddel	JACS	55	(1933)	3574
		6900-7200	Sol	Spec, Group anal	Wulf	JACS	57	(1935)	1464
		-	G	Spec	Badger	JCP	4	(1936)	711
		2400-4000	-	Spec, H bond	Barnes	JCP	4	(1936)	722
		-	-	Struct, Spec	Pauling	JACS	58	(1936)	94
		2.5-3.9 μ	Sol	Spec, I	Fox	PRS	162	(1937)	419
		1-15 μ	L	Temp effect, Spec	Brattain	JCP	6	(1938)	298
		-	-	Bond freq	Errera	TFS	34	(1938)	728
		2.6-3.6 μ	Sol	Solvent effect	Gordy	JCP	6	(1938)	12
		2.7-12 μ	L	Association	White	PR	53	(1938)	932
		4.75 μ	Sol	Absorption effect	Barr	JCP	5	(1939)	8
		1-15 μ	G	Band freq	Williams	JCP	7	(1939)	802
		-	-	H bond, Freq shift	Badger	JCP	8	(1940)	288
		-	Sol	H bond, Absorption freq	Wulf	JCP	8	(1940)	745
		7200-8800	Sol	H bond, Absorption freq	Wulf	JCP	8	(1940)	753
		1050-1800	-	Spec, Absorption freq	Barnes	IEC	15	(1943)	659
		-	-	FC	Linnett	TFS	41	(1945)	223
		700-1300	L	Spec, Anal, Assign	Wiffen	JCS	-	(1945)	268
		5-8 μ	-	C_6H_6 derivatives	Depaigne	JPR	7	(1946)	33
		-	-	Band freq	Gordy	JCP	14	(1946)	305
		700-1300	L,S	Spec	Kletz	JCS	-	(1947)	644
		3100-3700	S,Sol	Spec, Assign	Richards	JCS	-	(1947)	1260
		-	S	Band freq	Thompson	JCS	-	(1947)	289
		6.5-15 μ	Sol	Anal, Association	Davies	JCP	16	(1948)	267
		-	-	FC	Richards	TFS	44	(1948)	40
		2.2-3.6 μ	Sol	Spec	Hukins	JCS	-	(1949)	898
		-	L,S,Sol	H bond	Sears	JACS	71	(1949)	4110
		-	Sol	Anal	Friedel	AC	22	(1950)	418
		1600-3700	Sol	Spec, Chelation study	Husberger	JACS	72	(1950)	5626
		2.7-3.2 μ	Sol	H bond, Equil const	Coggeshall	JACS	73	(1951)	5414
		2.5-15 μ	Sol	Spec, Band freq, I	Friedel	JACS	73	(1951)	2881
		-	Sol	Anal	Simard	AC	23	(1951)	1384
		-	-	Anal	Smith	AC	23	(1951)	684
		5-6 μ	L	Spec	Young	AC	23	(1951)	709
		-	Sol	Stretch freq, Hammett const	Ingraham	JACS	74	(1952)	2297
		-	Sol	Spec, H bond	Kuhn	JACS	74	(1952)	2492

-	Sol	Anal	Smith	AC	24	(1952)	497
-	Sol	H bond	Tsuboi	BCSJ	25	(1952)	60
-	-	I	Vanmeter	AC	24	(1952)	1758
-	-	Anal	Spivy	JCS	-	(1953)	1647
890-1400	Sol	Spec, Struct, Assign	Davies	JCS	-	(1954)	120
-	-	Band freq	Ek	JACS	76	(1954)	5579
-	Sol	Freq	Goulden	SA	6	(1954)	129
-	Sol	Freq shift	Josien	JCP	22	(1954)	1169
8-13μ	-	Struct	Klemm	JACS	76	(1954)	1688
2-12μ	Sol	Spec, Struct	O'Connor	JACS	76	(1954)	2368
-	-	Ident	Entel	JACS	77	(1955)	611
11-14μ	Sol	Spec	Fair	AC	27	(1955)	1886
625-900	-	Out of Plane CH bending vibrations	Margoshes	SA	7	(1955)	14
2.6-3.4μ	-	I, H bond	Mizushima	SA	7	(1955)	100
3360	Sol	Freq, I, H bond	Tsubomura	JCP	23	(1955)	2130
1650-2000	-	Freq, Assign	Whiffen	SA	7	(1955)	253
-	-	Freq	Finch	JCP	24	(1956)	908
2.77μ	Sol	I	Hughes	JCP	24	(1956)	489
11-25μ	Sol	Spec	Potts	AC	28	(1956)	1255
12-15μ	S,Sol	Freq	Kross	JACS	78	(1956)	1332
350-4000	L,Sol	OH bands	Stuart	JCP	24	(1956)	559
3μ	Sol	Freq, I	Tsubomura	JCP	24	(1956)	927
-	Sol	Freq	Bavin	CJC	35	(1957)	1555
-	-	Stretching vibrations	Benson	JCP	27	(1957)	1164
14.95μ	Sol	Quant anal	Curry	AC	29	(1957)	1717
-	-	Freq related to Hammett const	Rao	CS	26	(1957)	375
14.95μ	Sol	Quant anal	Scheddel	AC	29	(1957)	1553
3604	Sol	Freq	Baker	JPC	62	(1958)	744
3600	-	Freq	Baker	JACS	80	(1958)	3598
3μ	Sol	Freq, H bond	Flett	SA	10	(1958)	21
4000-600	Sol	Freq	Katritzky	JCS	-	(1958)	4155
3100-3550	Sol	H bond	Lund	ACS	12	(1958)	298
3μ	Sol	I	Moccia	PRS	243	(1958)	154
-	-	H bond	Sato	NKZ	79	(1958)	1384
2800-3700	L,Sol	Solvent effect	Sirkar	IJP	32	(1958)	345
-	Sol	Freq	Stone	SA	10	(1958)	17
2.7-2.95μ	Sol	H bond	Baker	JACS	81	(1959)	4524
6000-10000	Sol	H bond	Bell	JCP	31	(1959)	300
3200-3800	Sol	Freq, H bond	Bellamy	TFS	55	(1959)	220
3570-3700	Sol	Freq, I	Flynn	AJC	12	(1959)	575
-	Sol	Spec	Karagonuis	ZE	63	(1959)	1120

		900-1500	-	Spec	Lindberg	SK	32b	(1959)	193
		6-11 μ	Sol	Dissociation	Parker	JPC	63	(1959)	1342
		-	Sol	IR, Freq, Spec	Potts	SA	15	(1959)	679
		3400-3800	Sol	H bond	West	JACS	81	(1959)	1614
		-	L	Substitution effect	Cabana	JPC	64	(1960)	1941
		300-3800	L,S,Sol	Spec, Assign, Thermo	Evans	SA	16	(1960)	1382
		-	Sol	Spec	Goddu	JACS	82	(1960)	4533
		250-5000	S	Spec, Freq assign	Hidalgo	SA	16	(1960)	528
		-	G	Spec	Kojima	JPSJ	15	(1960)	284
		3500-3800	Sol	Freq	Puttnam	JCS	-	(1960)	5100
C_6H_6OS	2-Acetylthiophene	400-3500	L	Freq	Hidalgo	CPR	239	(1954)	253
		800-2000	L	I	Katritzky	JCS	-	(1959)	3500
		-	-	Spec	Otsuji	NKZ	80	(1959)	1199
$C_6H_6O_2$	2-Acetylfuran	800-1700	Sol	Freq, Assign	Katritzky	JCS	-	(1959)	1199
$C_6H_6O_2$	Resorcinol	6900-7200	Sol	Spec	Wulf	JACS	57	(1935)	1464
		2.7-3.5 μ	S	Spec, H bond	Davies	JCP	8	(1940)	577
		1050-1800	S	Spec	Barnes	IEC	15	(1943)	659
		650-1300	S	Christiansen effect	Price	JCP	16	(1948)	1157
		3 μ	Sol	Freq	Ingraham	JACS	74	(1952)	2217
		3 μ	Sol	Freq	Kuhn	JACS	74	(1952)	2492
		-	-	H bond, Freq	Rundle	JCP	20	(1952)	1487
		-	-	Analysis	Bard	AC	26	(1954)	434
		-	Sol	Freq	Goulden	SA	6	(1954)	129
		2-16 μ	Sol	Spec	Bard	AC	27	(1955)	12
		700-1100	S,Sol	Out of plane CH deformation	Bellamy	JCS	-	(1955)	2818
		-	S	H bond	Pimental	JCP	24	(1956)	639
		-	Sol	Freq	Bavin	CJC	35	(1957)	1555
		3-15 μ	S	Spec	Farmer	SA	8	(1957)	374
		-	S,L,Sol	H bond, Config, Freq	Malysher	IANS	22	(1958)	1107
		520-1220	S,Sol	Polymorphism	Nonnenmacher	ZAC	170	(1959)	127
		-	L	Substitution effect	Cabana	JPC	64	(1960)	1941
		250-5000	S	Spec, Assign	Hidalgo	SA	16	(1960)	528
		3500-3800	Sol	Freq, Hammett const	Puttnam	JCS	-	(1960)	5100
$C_6H_6O_2$	Catechol	6800-7200	Sol	Spec	Wulf	JACS	57	(1935)	1464
		-	Sol	Struct, Spec	Pauling	JACS	58	(1936)	94
		2.7-2.9 μ	Sol	Iso, Spec	Davies	TFS	34	(1938)	1427

		7000	-	Absorption	Wulf	JCP	6	(1938)	712
		2.7-3.5 μ	S	Spec, H bond	Davies	JCP	8	(1940)	577
		1050-1800	-	Spec	Barnes	IEC	15	(1943)	659
		2-14.5 μ	Sol	Spec	Wright	JOSA	37	(1947)	211
		-	-	H bond	Coggeshall	JCP	18	(1950)	978
		3 μ	Sol	Freq	Ingraham	JACS	74	(1952)	2297
		3 μ	Sol	Freq	Kuhn	JACS	74	(1952)	2492
		-	-	Analysis	Bard	AC	26	(1954)	434
		2-16 μ	Sol	Spec	Bard	AC	27	(1955)	12
		2-15 μ	Sol	Spec	Wright	APS	9	(1955)	105
		-	-	IR analysis	Washburn	AC	29	(1957)	346
		800-1600	-	Ext coefficient	Katritzky	JCS	-	(1959)	3670
		-	L	Substitution effect	Cabana	JPC	64	(1960)	1941
		3500-3800	Sol	Freq	Puttnam	JCS	-	(1960)	5100
$C_6H_6O_2$	Hydroquinone	6900-7200	Sol	Spec	Wulf	JACS	57	(1935)	1464
		2.7-3.5 μ	S	Spec, H bond	Davies	JCP	8	(1940)	577
		3 μ	Sol	Freq	Ingraham	JACS	74	(1952)	2297
		2-16 μ	S	Spec	Anderson	AC	25	(1953)	1906
		-	-	Analysis	Bard	AC	26	(1954)	434
		2-16 μ	Sol	Spec	Bard	AC	27	(1955)	12
		700-1000	S, Sol	Out of plane CH deformation	Bellamy	JCS	-	(1955)	2818
		12-15 μ	S	Freq	Kross	JACS	78	(1956)	1332
		-	Sol	Freq	Bavin	CJC	35	(1957)	1555
		3-15 μ	S	Spec	Farmer	SA	8	(1957)	374
		-	Sol	IR	Washburn	AC	29	(1957)	3416
		-	S, L, Sol	H bond, Config, Freq	Malysher	IANS	22	(1958)	1107
		-	Sol	Freq	Stone	SA	10	(1958)	17
		-	L	Substitution effect	Cabana	JPC	64	(1960)	1941
		250-5000	S	Spec, Assign	Hidalgo	SA	16	(1960)	528
		3500-3800	Sol	Freq, Hammett const	Puttnam	JCS	-	(1960)	5100
$C_6H_6O_2$	cis-2-Hexen-4-ynoic acid	-	Sol	Freq, I	Allan	JCS	-	(1955)	1874
$C_6H_6O_2$	trans-2-Hexen-4-ynoic acid	-	Sol	Freq, I	Allan	JCS	-	(1955)	1874
$C_6H_6O_2$	cis-4-Hexen-2-ynoic acid	-	Sol	Freq, I	Allan	JCS	-	(1955)	1874
$C_6H_6O_2$	trans-4-Hexen-2-ynoic acid	-	Sol	Freq, I	Allan	JCS	-	(1955)	1874
$C_6H_6O_2$	5-Methyl-α-pyrone	1550-1850	Sol	Freq, I	Jones	CJC	37	(1959)	2007

$C_6H_6O_2$	6-Methyl-α-pyrone	-	-	Freq	Allan	JCS	- (1955) 1862
$C_6H_6O_2$	Pyrocatechin	250-5000	S	Spec, Assign	Hidalgo	SA	16 (1960) 528
$C_6H_6O_2$	Pyrocatechol	3200-7100	S,L,Sol	H bond, Config, Freq	Malysher	IANS	22 (1958) 1107
$C_6H_6O_2S$	Benzenesulphinic acid	700-3300	S,Sol	Struct, Assign, H bond	Detoni	JCS	- (1955) 3163
		600-4000	S	Group study	Braunholtz	JCS	- (1959) 868
$C_6H_6O_2S$	2-Carbomethoxythiophene	800-2000	L	I	Katritzky	JCS	- (1959) 3500
		800-1500	Sol	Assign	Katritzky	SA	16 (1960) 954
		-	-	Assign	Katritzky	SA	16 (1960) 964
$C_6H_6O_3$	Cyclobutane-1,2-dicarboxylic acid anhydride	1750-1850	Sol	Freq	Douben	JOC	24 (1959) 1595
$C_6H_6O_3$	Methyl 2-furoate	2-22 μ	S	Spec, Assign	Daasch	CIL	- (1958) 1113
		800-1700	Sol	Freq, Assign	Katritzky	JCS	- (1959) 657
		800-1500	Sol	Assign	Katritzky	SA	16 (1960) 954
		-	-	Assign	Katritzky	SA	16 (1960) 964
$C_6H_6O_3$	β-Methylglutaconic anhydride	-	-	Ident, Freq, Struct	Adams	JACS	75 (1953) 2377
$C_6H_6O_3$	Phloroglucinol	2-10 μ	S	Spec, Freq	Dubiel	JOC	19 (1954) 1359
$C_6H_6O_3 \cdot 2H_2O$	Phloroglucinol dihydrate	2-12 μ	S	Spec, Struct	O'Connor	JACS	76 (1954) 2368
$C_6H_6O_3$	Pyrogallol	6800-7200	Sol	OH bond	Wulf	JACS	58 (1936) 2287
$C_6H_6O_3S$	Benzenesulphonic acid	1000-1500	Sol	Spec	Schreiber	AC	21 (1949) 1168
		14.95 μ	Sol	Quant analysis	Jackson	JACS	77 (1955) 5625
$C_6H_6O_4$	α-Acetyltetronic acid	1550-1800	S,Sol	Spec, Freq	Duncanson	JCS	- (1953) 1207
$C_6H_6O_4$	β-Carboxymethyl-α-oxybutyro-γ-lactone	-	-	Freq, Struct	Little	JCS	- (1954) 2636
$C_6H_6O_4$	1,4-Dicarboxybutane dilactone	-	S,Sol	Freq	Marvel	JACS	75 (1953) 2326
$C_6H_6O_4$	Dimethyl 2-Butynedioate	-	L	Freq, I	Allan	JCS	- (1955) 1874

$C_6H_6O_4$	Ethyl acetylenedicarboxylate	2-15μ	L	Assign, Spec	Walton	JACS	79 (1957) 3985
$C_6H_6O_4$	2,4-Hexadiyn-1,6-dihydroperoxide	-	-	Freq	Milas	JACS	75 (1953) 5970
$C_6H_6O_4$	Hex-2-ynedioic acid	-	S	I	Jones	JCS	- (1954) 3208
		-	S	Freq, I	Allan	JCS	- (1955) 1874
$C_6H_6O_4$	Kojic acid	2-16μ	S	Spec	Kuhn	AC	22 (1950) 276
$C_6H_6O_6$	Dimethyl diketosuccinate	-	Sol	Freq	Goodwin	JACS	76 (1954) 5599
C_6H_6S	Benzenethiol	0.6-2.8μ	L	S-H study	Ellis	JACS	50 (1928) 2113
		3.1-4.5μ	L	H bond	Gordy	JACS	62 (1940) 497
		-	Sol	H bond	Sutherland	TFS	36 (1940) 889
		-	-	FC	Linnett	TFS	41 (1945) 223
		-	-	S-H freq	Gordy	JCP	14 (1946) 305
		2-12μ	Sol	Spec	Ettlinger	JACS	72 (1950) 4699
		2.7-8.1μ	L, Sol	Spec, Freq	Meguerian	JACS	73 (1951) 2121
		-	Sol	S-H band, Freq	Plant	JACS	77 (1955) 1572
		600-4000	Sol	Freq	Katritzky	JCS	- (1958) 4155
		2500-2700	Sol	I	Spurr	JPC	62 (1958) 425
C_6H_6S	2-Ethenylthiophene	400-3500	L	Freq	Hidalgo	CPR	239 (1954) 253
C_6H_7Br	3-Bromo-1,3,5-hexatriene	2-16μ	-	Spec	Woods	JACS	72 (1950) 139
C_6H_7BrO	Methylvinyl (bromoethynyl)-carbinol	-	-	Freq	McLamore	JOC	20 (1955) 109
$C_6H_7BrO_2$	2-Bromo-1,3-Cyclohexadione	1550-1750	Sol	Spec, Assign	Ananchenko	IANS	- (1960) 1644
C_6H_7BrSi	Phenylbromosilane	-	L, Sol	Reference	Haroey	JACS	76 (1954) 4555
C_6H_7Cl	cis-1-Chloro-2-hexen-4-yne	-	Sol	Freq, I	Allan	JCS	- (1955) 1874
C_6H_7Cl	trans-1-Chloro-2-hexen-4-yne	-	Sol	Freq, I	Allan	JCS	- (1955) 1874
C_6H_7Cl	cis-1-Chloro-4-hexene-	-	Sol	Freq, I	Allan	JCS	- (1955) 1874

C_6H_7Cl	trans-1-Chloro-4-hexene -2-yne	-	Sol	Freq, I	Allan	JCS	- (1955) 1874
C_6H_7Cl	cis-2-Chloro-3-hexen -5-yne	-	Sol	Freq, I	Allan	JCS	- (1955) 1874
C_6H_7Cl	trans-2-Chloro-3-hexen -5-yne	-	Sol	Freq, I	Allan	JCS	- (1955) 1874
$C_6H_7ClNO_3P$	N-p-Chlorophenyl-aminophosphoric acid	3-15 μ	L,S	Spec, Freq	Li	JACS	77 (1955) 3519
C_6H_7ClSi	m-Chlorophenylsilane	2050-2250	Sol	Freq, Struct	Smith	SA	15 (1959) 412
$C_6H_7Cl_2F_3O$	1-n-Propoxy-1,2-dichloro-3,3,3-trifluoro-1-propene	2-15 μ	G	Spec, Struct	Park	JACS	74 (1952) 4104
$C_6H_7Cl_3F_4Si$	β-(2,3-Tetrafluorocyclo-butylethyl) trichloro-silane	10.85-11.1 μ	-	Freq	Park	JOC	25 (1960) 1628
$C_6H_7Cl_3NOB$	4-Methoxypyridine-N-boron trichloride	900-3000	Sol	Freq, Assign	Katritzky	JCS	- (1959) 2062
$C_6H_7Cl_3NOB$	4-Methoxypyridine boron trichloride	-	Sol	Freq, Assign	Katritzky	JCS	- (1959) 2049
$C_6H_7Cl_3NB$	4-Methylpyridine boron trichloride	-	Sol	Freq, Assign	Katritzky	JCS	- (1959) 2049
$C_6H_7Cl_5F_4Si$	β-(2,2-Dichloro-3,3-difluorocyclobutylethyl) trichlorosilane	10.85-11.1 μ	-	Freq	Park	JOC	25 (1960) 1628
$C_6H_7F_5O$	Pentafluoroethyl isopropyl ketone	650-5000	Sol,S	Freq	Griffin	SA	16 (1960) 1464
$C_6H_7F_5O$	Pentafluoroethyl n-propyl ketone	650-5000	Sol,S	Freq	Griffin	SA	16 (1960) 1464
$C_6H_7F_5O_2$	Isopropyl perfluoro-propionate	2-15 μ	L	Spec	Husted	JACS	75 (1953) 1605

$C_6H_7I_2N$	α-Picoline-iodine	-	Sol	Freq	Glusker	JCS	-	(1955)	471
$C_6H_7I_2N$	β-Picoline-iodine	-	Sol	Freq	Glusker	JCS	-	(1955)	471
C_6H_7N	Aniline	-	-	Beer's law	Baly	JCS	107	(1915)	1121
		1-12μ	L	Spec	Bell	JACS	47	(1925)	2192
		0.8-2.8μ	L	Spec	Ellis	JACS	49	(1927)	347
		0.6-2.3μ	L	Spec	Ellis	JACS	50	(1928)	685
		0.59-2.8μ	L	IR, Visible correlation	Ellis	PR	32	(1928)	906
		-	-	Freq	Bonino	TFS	25	(1929)	876
		-	-	C-H, N-H linkage heat	Ellis	PR	33	(1929)	27
		2.9μ	-	Freq	Ellis	PR	35	(1930)	595
		1-30μ	G	Spec	Kattering	P	4	(1933)	39
		6500-6800	Sol	Spec	Liddle	JACS	55	(1933)	3574
		6400-7000	Sol	Spec	Wulf	JACS	57	(1935)	1464
		-	-	H bond	Gordy	JCP	4	(1936)	749
		2.5-3.1μ	L	Spec	Gordy	JACS	59	(1937)	464
		0.9-4μ	L,Sol	Spec, H bond	Kinsey	JCP	5	(1937)	379
		7000	-	Struct	Wulf	JCP	6	(1938)	702
		2900-3800	Sol	Spec, H bond	Buswell	JACS	61	(1939)	3252
		2.6-3.2μ	Sol	Spec, H bond	Gordy	JCP	7	(1939)	167
		1-15μ	G	Freq, Assign	Williams	JCP	7	(1939)	802
		-	Sol	H bond	Sutherland	TFS	36	(1940)	889
		2400-3600	Sol	Spec	Muller	IEC	13	(1941)	667
		2400-3600,	-	Spec	Barnes	IEC	15	(1943)	659
		1100-1700	-	Spec	Barnes	IEC	15	(1943)	659
		-	-	FC	Linnett	TFS	41	(1945)	223
		700-1400	L	Spec	Whiffen	TFS	41	(1945)	200
		5-8μ	-	C_6H_6 derivatives	Depaigne	JPR	7	(1946)	33
		3410-3489	Sol	Freq	Flett	TFS	44	(1948)	767
		-	-	FC	Richards	TFS	44	(1948)	40
		650-2020	L	Spec	Cannon	SA	4	(1951)	373
		650-3500	L	Spec	Lothrop	JACS	73	(1951)	3581
		3μ	Sol	Spec, Struct	Angyal	JCS	-	(1952)	2911
		3μ	L	H bond	Fuson	JCP	20	(1952)	145
		-	Sol	Freq, Struct	Goulden	JCS	-	(1952)	2939
		6500-7000	L	Spec, Freq, I	Lauer	APS	6	(1952)	29
		15-25μ	L	Opaque	Marrison	JSI	29	(1952)	233
		-	Sol	FC, H bond	Short	JCS	-	(1952)	4584
		2-12μ	Sol	Spec, Struct	O'Connor	JACS	76	(1954)	2368
		-	-	Purity check	Dannby	JOC	20	(1955)	92
		625-900	-	CH bending vibrations	Margoshes	SA	7	(1955)	14
		2.6-3.4μ	-	H Bonds	Mizushima	SA	7	(1955)	100
		-	-	Freq	Califano	GCI	86	(1956)	1014

		12-15 μ	L	CH bending vibrations	Kross	JACS	78	(1956)	1332
		-	-	Stretching vibrations and liquid-vapour shift	Benson	JCP	27	(1957)	1164
		2000-4000	L,S,Sol	Spec	Califano	GCI	87	(1957)	805
		-	Sol	Freq	Krueger	PRS	243	(1957)	143
		3000-3700	Sol	Freq	Soda	BCSJ	30	(1957)	499
		1250-3600	Sol	Freq	Dyall	AJC	11	(1958)	513
		400-6000	-	IR	Friedel	JPC	62	(1958)	1341
		2900-3100	Sol	Freq	Hill	JCS	-	(1958)	760
		4000-600	Sol	Freq	Katritzky	JCS	-	(1958)	4155
		3 μ	Sol	FC	Mason	JCP	-	(1958)	3619
		3000-4000	Sol	Freq	Oriville-Thomas	JCS	-	(1958)	1047
		14-22 μ	Sol	Analysis	Whetsel	AC	30	(1958)	1594
		8-26 μ	Sol	I, N-H band study	Whetsel	AC	30	(1958)	1598
		3 μ	Sol	Freq, FC	Elliot	JCS	-	(1959)	1275
		-	S	Spec	Karagonuis	ZE	63	(1959)	1120
		-	-	Freq assign, Struct	Katritzky	JCS	-	(1959)	3674
		600-1700	L	Spec	Lecompte	CPR	249	(1959)	2443
		-	Sol	Freq	Bryson	JACS	82	(1960)	4850
		400-3800	G,L,Sol	Config, Assign, Freq	Evans	SA	16	(1960)	428
		3000-3500	Sol	H bond	Farmer	SA	16	(1960)	559
		500-3500	Sol	Freq, Assign	Tsuboi	SA	16	(1960)	505
		1.4-1.6 μ	Sol	Bond study	Whetsel	AC	32	(1960)	1281
$C_6H_7N.HBr$	Aniline hydrobromide	1000-3500	Sol	Freq	Chenon	CJC	36	(1958)	1181
		4000-2000	S	H bond	Brisette	CJC	38	(1960)	34
$C_6H_7N.HCl$	Aniline hydrochloride	-	Sol	Freq	Barrow	JACS	76	(1954)	5211
		625-900	-	Bending freq	Margoshes	SA	7	(1955)	14
		12-15 μ	S	Freq	Penland	JACS	78	(1956)	887
		2-8 μ	-	Spec	Nakanishi	BCSJ	30	(1957)	403
		1000-3500	Sol	Freq	Chenon	CJC	36	(1958)	1958
		420-4000	-	Spec, Assign	Gray	DA	19	(1958)	454
		2000-4000	S	H bond	Brisette	CJC	38	(1960)	34
$C_6H_7N.HCl$	γ-Picoline hydrochloride	-	-	Freq	Witkop	JACS	76	(1954)	1954
$C_6H_7N.HI$	Aniline hydriodide	1000-3500	Sol	Freq	Chennon	CJC	36	(1958)	1181
		2000-4000	S	H bond	Brisette	CJC	38	(1960)	34
C_6H_7N	2-Methylpyridine	52-152 μ	L,Sol	Iso, Dispersion	Cartwright	PRS	154	(1936)	138

		-	-	Solvent effect	Gordy	JCP	7	(1939)	93
		-	-	Solvent effect	Gordy	JCP	7	(1939)	163
		750-1950	-	Spec	Barnes	IEC	15	(1943)	659
		-	-	Freq	Kline	JCP	12	(1943)	300
		2-14μ	L	Spec	Frieser	JACS	70	(1948)	2575
		2800-4200	L	Spec	Coulson	JCS	-	(1951)	2125
		-	L,Sol	Analysis	Densham	JCS	-	(1952)	2433
		-	-	Ident	Vanmeter	AC	24	(1952)	1758
		729-4300	G,L	I	Biddiscombe	JCS	-	(1954)	1957
		5-8μ	Sol	Spec	Ehrlich	JACS	76	(1954)	5263
		-	L	Freq	Cook	AC	28	(1956)	993
		670-5000	G,L	Spec	Long	TFS	53	(1957)	1171
		2-15μ	L	Freq	Podall	AC	29	(1957)	1423
		400-1700	L	Quant analysis	Bohan	AC+	30	(1958)	245
		2.18-21.20μ	L	Purification	Helm	JPC	62	(1958)	858
C_6H_7N	3-Methylpyridine	52-152μ	L	Trans, Dispers	Cartwright	PRS	154	(1936)	138
		750-1950	-	Spec	Barnes	IEC	15	(1943)	659
		660-2040	L	Spec	Cannon	SA	4	(1951)	373
		2800-4200	L	Spec	Coulson	JCS	-	(1951)	2125
		-	L,Sol	Analysis, Ext coefficient	Densham	JCS	-	(1952)	2433
		-	-	Ident	Vanmeter	AC	24	(1952)	1758
		708-4590	G,L	I	Biddiscombe	JCS	-	(1954)	1957
		-	L	Analysis	Cook	AC	28	(1956)	993
		3-4 μ	L,Sol	C-H stretch freq	Tallent	AC	28	(1956)	953
		670-5000	G,L	Spec	Long	TFS	53	(1957)	1171
		2-15μ	L	Freq	Podall	AC	29	(1957)	1423
		2.5-25μ	Sol	Spec, Quant analysis	Bohon	AC	30	(1958)	245
		600-3000	Sol	Assign	Katritzky	JCS	-	(1958)	3165
C_6H_7N	4-Methylpyridine	750-1950	-	Spec	Barnes	IEC	15	(1943)	659
		650-2030	L	Spec	Cannon	SA	4	(1951)	373
		2800-4200	L	Spec	Coulson	JCS	-	(1951)	2125
		-	L,Sol	Ext coefficient	Densham	JCS	-	(1952)	2433
		-	-	Ident	VanMeter	AC	24	(1952)	1758
		728-4580	G,L	I	Bediscombe	JCS	-	(1954)	1957
		-	L	Analysis	Cook	AC	28	(1956)	993
		670-5000	G,L	Spec	Long	TFS	53	(1957)	1171
		2-15μ	L	Freq	Podall	AC	29	(1957)	1423
		400-1700	L,Sol	Spec	Bohon	AC	30	(1958)	245
C_6H_7N	2-Vinylpyrrole	-	Sol	Freq	Hery	JACS	76	(1954)	576
C_6H_7NO	2-Acetylpyrrole	4000-5000	S,Sol	Spec, Struct, Assign	Eisner	JCS	-	(1958)	971

		-	S,Sol	H bond, Struct	Mirone	AC	48 (1958) 881
		-	S,Sol	Freq	Mirone	ANCR	48 (1958) 72
		-	Sol	I, Freq, Struct	Mirone	ANCR	49 (1959) 59
C_6H_7NO	m-Aminophenol	3μ	Sol	Freq	Ingrahan	JACS	74 (1952) 2297
		-	L	Substitution effect	Cabana	JPC	64 (1960) 1941
		3500-3800	Sol	Freq	Puttnam	JCS	- (1960) 5100
C_6H_7NO	o-Aminophenol	-	S,Sol	Spec, Freq	Witkop	JACS	74 (1952) 3861
		-	L	Substitution effect	Cabana	JPC	64 (1960) 1941
C_6H_7NO	p-Aminophenol	3612	Sol	Freq, Hammett const	Cabana	JPC	62 (1958) 744
		3500-3800	Sol	Freq, Hammett const	Puttnam	JCS	- (1960) 5100
		-	L	Substitution effect	Baker	JPC	64 (1960) 1941
C_6H_7NO	2-Cyanocyclopentanone	2-15μ	L	Freq, Spec	Hammer	JACS	77 (1955) 3649
C_6H_7NO	3-Hydroxymethylpyridine	600-3000	Sol	Assign	Katritzky	JCS	- (1958) 3165
C_6H_7NO	3-Hydroxy-4-methyl-pyridine	-	-	No absorption	Berson	JACS	77 (1955) 1281
C_6H_7NO	α-Methoxypyridine	900-3000	Sol	Freq, Assign	Katritzky	JCS	- (1959) 2062
C_6H_7NO	γ-Methoxypyridine	900-3000	Sol	Freq, Assign	Katritzky	JCS	- (1959) 2062
C_6H_7NO	2-Methyl-6-oxypyridine	2-16μ	Sol	Spec, Freq, Ident	Ramirey	JOC	19 (1954) 183
C_6H_7NO	3-Methoxypyridine	650-4000	L,Sol	Spec, Freq, H bond	Heinert	JACS	81 (1959) 3933
C_6H_7NO	3-Methylpyridine-1-oxide	800-3000	Sol	Spec, Freq, I	Katritzky	JCS	- (1959) 3680
C_6H_7NO	4-Methylpyridine-1-oxide	600-3000	Sol	I	Katritzky	JCS	- (1958) 2192
C_6H_7NO	N-Methyl-2-pyridone	-	Sol	Freq, Ident	Bellamy	SA	16 (1960) 30
		800-4000	S	Spec, Freq	Katritzky	JCS	- (1960) 2947
C_6H_7NO	N-Methyl-4-pyridone	-	Sol	Freq, Ident	Bellamy	SA	16 (1960) 30
		800-4000	S	Spec, Freq	Katritzky	JCS	- (1960) 2947
		700-3800	S,Sol	Spec, Struct, Freq	Albert	JCS	- (1960) 1221
C_6H_7NO	N-Phenylhydroxylamine	-	Sol	Freq, Struct	Fanta	JACS	75 (1953) 737

C_6H_7NOS	2-Acetylthiophene ketoxime	800-2000	L	I	Katritzky	JCS	-	(1959)	3500
C_6H_7NOS	N-Methylthiofuramide	600-1700	S,Sol	Spec, Assign	Hadzi	JCS	-	(1957)	847
$C_6H_7NO_2$	3-Acetoxy-3-cyanoprop-1-ene	-	Sol	Freq	Davison	JCS	-	(1953)	2607
$C_6H_7NO_2$	2-Acetylfuran ketoxime	800-1800	-	Freq, Assign	Katritzky	JCS	-	(1959)	657
$C_6H_7NO_2$	N-Ethylmaleinimide	2-15μ	Sol	Freq	Tsou	JACS	77	(1955)	4613
$C_6H_7NO_2$	N-Methoxy-2-pyridone	800-4000	S	Spec, Freq	Katritzky	JCS	-	(1960)	2947
$C_6H_7NO_2$	N-Methoxy-4-pyridone	800-4000	S	Spec, Freq	Katritzky	JCS	-	(1960)	2947
$C_6H_7NO_2$	2-Methoxypyridine-N-oxide	900-3000	Sol	Freq, Assign	Katritzky	JCS	-	(1959)	2062
$C_6H_7NO_2$	3-Methoxypyridine-N-oxide	900-3000 800-3000	Sol Sol	Spec, Freq, I Freq, Assign	Katritzky Katritzky	JCS JCS	- -	(1959) (1959)	2062 3680
$C_6H_7NO_2$	4-Methoxypyridine-N-oxide	600-3000 900-3000	Sol Sol	I Freq, Assign	Katritzky Katritzky	JCS JCS	- -	(1958) (1959)	2192 2062
$C_6H_7NO_2$	2-Methyl-4-carboxypyrrole	3.2-3.5μ	-	Vibrations	Scrocco	AAN	24	(1958)	429
$C_6H_7NO_2$	2-Methyl-5-carboxypyrrole	3.2-3.5μ	-	Vibrations	Scrocco	AAN	24	(1958)	429
$C_6H_7NO_2$	3-Methyl-4-carboxypyrrole	3.2-3.5μ	-	Vibrations	Scrocco	AAN	24	(1958)	429
$C_6H_7NO_2$	3-Methyl-5-carboxypyrrole	3.2-3.5μ	-	Vibrations	Scrocco	AAN	24	(1958)	429
$C_6H_7NO_2$	4-Methyl-5-carboxypyrrole	3.2-3.5μ	-	Vibrations	Scrocco	AAN	24	(1958)	429
$C_6H_7NO_2$	5-Methyl-4-carboxypyrrole	3.2-3.5μ	-	Vibrations	Scrocco	AAN	24	(1958)	429
$C_6H_7NO_2$	N-Methyl-3-hydroxy-4-pyridone	650-3900	S	Spec	Adams	JACS	69	(1947)	1810
$C_6H_7NO_2.HCl.2H_2O$	2,6-Dihydroxy-4-methylpyridine hydrochloride dihydrate	824-3400	S	Table, Band freq	Ames	JCS	-	(1953)	3008

$C_6H_7NO_2S$	Benzenesulfonamide	1000-1500	Sol	Spec	Schreiber	AC	21 (1949) 1168
		-	S,Sol	Freq	Baxter	JCS	- (1955) 669
$C_6H_7NO_3$	3-Allyloxazolid-2,4-dione	650-4000	Sol	Spec	Pianka	JCS	- (1960) 983
$C_6H_7NO_3$	N-Hydroxy-α,β-dimethylmaleinimide	-	S	Freq	Ames	JCS	- (1955) 631
$C_6H_7NO_3.HCl.2H_2O$	2,3,6-Trihydroxy-4-methylpyridine hydrochloride dihydrate	741-3200	S	Band freq, Table	Ames	JCS	- (1953) 3008
$C_6H_7NO_3S$	Metanilic acid	750-1950	S	Spec	Barnes	IEC	15 (1943) 659
		-	-	Absorbance	Bomstein	AC	25 (1953) 512
$C_6H_7NO_3S$	Orthanilic acid	750-1950	S	Spec	Barnes	IEC	15 (1943) 659
		-	-	Absorbance	Bomstein	AC	25 (1953) 512
$C_6H_7NO_3S$	Sulfanilic acid	750-1950	-	Spec	Barnes	IEC	15 (1943) 659
		-	S	Specular reflectance	Rappaport	PR	74 (1948) 115
		-	-	Absorbance	Bomstein	AC	25 (1953) 512
$C_6H_7NO_4$	N-Acetoxysuccinimide	-	S	Freq	Ames	JCS	- (1955) 631
C_6H_7NS	2-Methylmercaptopyridine	700-3800	S,Sol	Freq, Assign	Spinner	JCS	- (1960) 1237
C_6H_7NS	3-Methylmercaptopyridine	700-3800	S,Sol	Freq, Assign	Spinner	JCS	- (1960) 1237
C_6H_7NS	4-Methylmercaptopyridine	700-3800	S,Sol	Freq, Assign	Spinner	JCS	- (1960) 1237
C_6H_7NS	N-Methyl-2-thiopyridone	800-4000	S	Spec, Freq	Katritzky	JCS	- (1960) 2947
		700-3800	S,Sol	Freq, Assign	Spinner	JCS	- (1960) 1237
C_6H_7NS	N-Methyl-4-thiopyridone	800-4000	S	Spec, Freq	Katritzky	JCS	- (1960) 2947
		700-3800	S,Sol	Freq, Assign	Spinner	JCS	- (1960) 1237
$C_6H_7N_5$	2-Amino-6-methylpurine	700-3500	S	Spec, Freq	Willits	JACS	77 (1955) 2569

$C_6H_7N_5$	6-Amino-2-methylpurine	795-3271	S	I, Freq	Willits	JACS	77 (1955) 2569
$C_6H_7N_5S$	6-Amino-2-methyl-mercaptopurine	677-3295	S	I, Freq	Willits	JACS	77 (1955) 2569
$C_6H_7O_2P$	Benzenephosphinic acid	2-21μ	Sol	Spec	Daasch	AC	23 (1951) 853
$C_6H_7O_2P$	Phenylhypophosphorous acid	-	-	P = O study	Bell	JACS	76 (1954) 5185
		-	-	Freq	Bennett	JCS	- (1954) 3598
		600-4000	S	Group study	Braunholtz	JCS	- (1959) 868
$C_6H_7O_3P$	Phenylphosphorous acid	2-21μ	S	Spec	Daasch	AC	23 (1951) 853
		600-4000	S	P(:O)OH group presence established	Braunholtz	JCS	- (1959) 868
$C_6H_7O_3As$	Phenylarsonic acid	1500-4000	S	Spec	Braunholtz	JCS	- (1959) 868
$C_6H_7O_4P$	Phenoxyphosphorous acid	-	Sol	P-OH freq	Bellamy	JCS	(1952) 1701
		600-4000	S	P(:O)OH group presence established	Braunholtz	JCS	- (1959) 868
$C_6H_7O_4P.H_2O$	Phenyldihydrogen phosphate monohydrate	-	-	Freq	Bellamy	JCS	- (1952) 1701
C_6H_8	1,3-Cyclohexadiene	-	-	Quant mech	Mulliken	JCP	7 (1939) 121
		-	-	Quant mech	Mulliken	JCP	7 (1939) 339
		-	-	Ident	Hine	JACS	77 (1955) 594
C_6H_8	1,4-Cyclohexadiene	-	-	Spec	Gerding	RTC	68 (1949) 293
C_6H_8	1,2-Dimethyl-1-buten--3-yne	-	-	Spec	Petrov	ZOK	27 (1957) 1167
C_6H_8	1,2-Dimethylene-cyclobutane	2-15μ	G	Spec	Blomquist	JACS	77 (1955) 1806
C_6H_8	1-Ethyl-1-buten-3-yne	-	-	Spec	Petrov	ZOK	27 (1957) 1167
C_6H_8	4-Ethyl-1-buten-3-yne	-	-	Spec	Petrov	ZOK	27 (1957) 1167
C_6H_8	1,3,5-Hexatriene	2-15μ	L	Spec	Woods	JACS	70 (1948) 3394
			L,G	Spec, Assign, Config	Lippincott	JACS	80 (1958) 2926

C_6H_8	1-Hexen-4-yne	-	-	Spec	Petrov	ZOK	27 (1957)	1167
C_6H_8	2-Vinyl-1,3-butadiene	3.8-13.25μ	-	Freq	Bailey	JACS	77 (1955)	1133
		-	-	Spec, Freq	Blomquist	JACS	77 (1955)	81
$C_6H_8D_2N_2O_2$	1,2-Cyclohexanedione dioxime-d_2	2-16μ	S	Spec, H bond	Voter	AC	23 (1951)	1730
$C_6H_8D_2O_4$	Adipic acid-d_2	500-1500	S	Spec, Assign	Hadzi	PRS	216 (1953)	247
		400-4000	S	Assign, Struct	Busi	SA	15 (1959)	1063
C_6H_8BrCl	cis-1-Bromo-2-chloro-cyclohexene	-	-	Ident	Goering	JACS	77 (1955)	3465
$C_6H_8Br_2$	Trans-4,5-Dibromo-cyclohexene	-	-	Freq	VanTameleu	JACS	77 (1955)	1704
$C_6H_8Br_2$	3,6-Dibromo-1-cyclohexene	-	-	Iso	Sakashita	NKZ	80 (1959)	13
$C_6H_8Br_2$	1,6-Dibromo-2,4-hexadiene	-	-	Struct	Bateman	JCS	- (1950)	936
$C_6H_8Br_2Cl_2$	1,2-Dichloro-4,5-dibromocyclohexane	495-928	S,Sol	Iso	Kozima	JCP	25 (1956)	177
$C_6H_8Br_2O$	2,2-Dibromocyclo-hexanone	-	Sol	Freq	Corey	JACS	75 (1953)	3297
$C_6H_8Br_2O$	cis-2,6-Dibromo-cyclohexanone	-	Sol	Freq	Corey	JACS	75 (1953)	3297
$C_6H_8Br_2O$	trans-2,6-Dibromo-cyclohexanone	-	Sol	Freq	Corey	JACS	75 (1953)	3297
$C_6H_8ClNO_3$	Allyl-N-Chloroacetyl-carbamate	650-4000	Sol	Spec	Pianka	JCS	- (1960)	983
$C_6H_8ClN_3$	2-Methylamino-4-methyl-6-chloro-pyrimidine	2-25μ	S	Spec, Freq	Short	JCS	- (1952)	168
$C_6H_8Cl_2$	4,5-Dichloro-1-cyclo-hexene	-	S,Sol	Spec, Assign, Struct	Sakashita	NKZ	79 (1958)	329

$C_6H_8Cl_2O$	2,2-Dichlorocyclo-hexanone	-	-	Band shift	Corey	JACS	77 (1955) 5418
$C_6H_8F_2Se$	2,3-Dimethyl-selenophene	600-3000	Sol	Freq	Chumaevskii	OS	6 (1959) 45
$C_6H_8F_2Se$	2,4-Dimethyl-selenophene	600-3000	Sol	Freq	Chumaevskii	OS	6 (1959) 45
$C_6H_8F_2Se$	3,4-Dimethyl-Selenophene	600-3000	Sol	Freq	Chumaevskii	OS	6 (1959) 45
$C_6H_8F_4NB$	Phenylammonium tetra-fluoroborate	-	S	H bond, freq	Nuttall	JCS	- (1960) 4965
$C_6H_8N_2$	Adiponitrile	3-5.5 μ	L	Spec	Magat	JACS	73 (1951) 1031
		-	-	Freq, I	Kitson	AC	24 (1952) 334
		-	-	I	Thompson	TFS	52 (1956) 1451
		2200-2300	Sol	Freq, Struct	Jesson	SA	13 (1958) 217
$C_6H_8N_2$	Amino-2-cyanocyclo-pentene-1	2-15 μ	Sol	Freq, Spec	Hammer	JACS	77 (1955) 3649
$C_6H_8N_2$	1,2-Dihydro-2-imino-1-methylpyridine	3 μ	Sol	Spec, Freq	Angyal	JCS	- (1952) 2911
		-	Sol	Freq, Struct	Goulden	JCS	- (1952) 2939
$C_6H_8N_2$	1,4-Dihydro-4-imino-1-methylpyridine	6 μ	-	Spec, Freq, Struct	Angyal	JCS	- (1952) 2911
$C_6H_8N_2$	Ethylsuccinonitrile	-	-	Freq	Kitson	AC	24 (1952) 334
$C_6H_8N_2$	2-Methylaminopyridine	-	Sol	Freq, Struct	Goulden	JCS	- (1952) 2939
		-	-	Freq, Assign, Struct	Katritzky	JCS	- (1959) 3674
$C_6H_8N_2$	3-Methylaminopyridine	600-3000	Sol	Assign	Katritzky	JCS	- (1958) 3165
		-	-	Freq, Assign, Struct	Katritzky	JCS	- (1959) 3674
$C_6H_8N_2$	4-Methylaminopyridine	-	-	Freq, Struct	Katritzky	JCS	- (1959) 3674
$C_6H_8N_2$	4-Methylglutaronitrile	-	-	Freq	Kitson	AC	24 (1952) 334
$C_6H_8N_2$	1-Methyl-2-vinylimidazole	-	L	Struct	Lawson	JACS	75 (1953) 3398

$C_6H_8N_2$	m-Phenylenediamine	6400-7000	Sol	Spec	Wulf	JACS	57	(1935)	1464
		-	-	Absorption band	Wulf	JCP	6	(1938)	702
		-	-	Freq	Califano	GCI	86	(1956)	1014
		-	S	Freq, Assign, Struct	Karagounis	ZE	63	(1959)	1120
		-	-	Freq, Assign, Struct	Katritzky	JCS	-	(1959)	3674
		-	Sol	Freq	Bryson	JACS	82	(1960)	4858
$C_6H_8N_2$	o-Phenylenediamine	6400-6900	Sol	Spec	Wulf	JACS	57	(1935)	1464
		-	-	Absorption band	Wulf	JCP	6	(1938)	702
		-	S	Spec	Karagounis	ZE	63	(1959)	1120
		800-1600	-	I, Ext coeff	Katritzky	JCS	-	(1959)	3674
		-	-	Freq, Assign, Struct	Katritzky	JCS	-	(1959)	3670
$C_6H_8N_2$	p-Phenylenediamine	6400-7000	Sol	Spec	Wulf	JACS	57	(1935)	1464
		-	-	Absorption band	Wulf	JCP	6	(1938)	702
		700-1000	S,Sol	Deformation study	Bellamy	JCS	-	(1955)	2818
		-	-	Freq	Califano	GCI	186	(1956)	1014
		-	Sol	Freq	Krueger	PRS	243	(1957)	143
		14-26 μ	S	Struct, Quant anal	Whetsel	AC	30	(1958)	1598
		-	S	Spec	Karagounis	ZE	63	(1959)	1120
$C_6H_8N_2$	Phenylhydrazine	6200-6800	Sol	Spec	Wulf	JACS	57	(1935)	1464
$C_6H_8N_2O$	2,4-Dimethyl-6-hydroxypyrimidine	-	-	Struct	Snyder	JACS	76	(1954)	118
$C_6H_8N_2O$	1,3-Dimethyl-6-pyridazone	-	Sol	Struct, Freq	Overend	JCS	-	(1950)	3500
$C_6H_8N_2O$	4-Hydroxy-2,6-dimethyl-pyrimidine	2-25 μ	S	Spect, Freq	Short	JCS	-	(1952)	168
$C_6H_8N_2O$	4-Methylaminopyridine-1-oxide	600-3000	Sol	I	Katritzky	JCS	-	(1958)	2192
		-	-	Freq, Assign, Struct	Katritzky	JCS	-	(1959)	3674
$C_6H_8N_2O$	2-Methylaminopyridine-N-oxide	800-3000	Sol	I	Katritzky	JCS	-	(1958)	2195
		-	-	Freq, Assign, Struct	Katritzky	JCS	-	(1959)	3674
$C_6H_8N_2O$	β,β'-Oxydipropionitrile	8-11 μ	Sol	Spec, Ident	Dupre	AC	27	(1955)	1878
$C_6H_8N_2O \cdot HCl$	2,4-Dimethyl-6-hydroxy-pyrimidine hydrochloride	-	-	Ident	Snyder	JACS	76	(1954)	118
$C_6H_8N_2OS$	2-Amino-5-isopropylidene-2-thiazolin-4-one	3-9 μ	-	Assign of struct	Durden	JACS	81	(1959)	1943
$C_6H_8N_2OS$	4-Hydroxy-2-methylthio-6-methylpyrimidine	2-15 μ	S	Spec, Freq, Assign	Brownlie	JCS	-	(1950)	3062

$C_6H_8N_2O_2$	DL-Biacetylcyanohydrin	-	-	Freq	Kitson	AC	24 (1952)	334
$C_6H_8N_2O_2$	meso-Biacetylcyanohydrin	-	-	Freq	Kitson	AC	24 (1952)	334
$C_6H_8N_2O_2$	1,3-Dimethyl-2,4-diketopyrimidine	2-25 μ	S	Spec, Freq	Short	JCS	- (1952)	168
$C_6H_8N_2O_2$	α-N-Methoxyamino-pyridine-N-oxide	800-3000	Sol	Effect of substituent	Katritzky	JCS	- (1958)	2195
$C_6H_8N_2O_2S$	2-Amino-5(1-hydroxy-1-methyl)ethyl-2-thiazolin-4-one	3-9 μ	-	Assign of struct	Durden	JACS	81 (1959)	1943
$C_6H_8N_2O_2S$	3-Methane sulfonamido-pyridine	900-3350	Sol	Freq, Assign, Ext coefficient	Katritzky	JCS	- (1960)	4497
$C_6H_8N_2O_2S$	m-Sulfanilamide	750-1950	S	Spec	Barnes	IEC	15 (1943)	659
$C_6H_8N_2O_2S$	o-Sulfanilamide	750-1950	S	Spec	Barnes	IEC	15 (1943)	659
$C_6H_8N_2O_2S$	p-Sulfanilamide	750-1950	S	Spec	Barnes	IEC	15 (1943)	659
		5-40.0 μ	S	Freq	Baxter	JCS	- (1955)	669
$C_6H_8N_2O_2S.H_2O$	2-Amino-3-(2-carboxy-ethyl)-thiazolium-betaine hydrate	2.88-15.5 μ	S	Freq	Hurd	JACS	77 (1955)	117
$C_6H_8N_2O_3$	6-Ethoxyuracil	2-12 μ	Sol	Spec, Freq assign	Lacher	JPC	59 (1955)	615
C_6H_8O	Cyclohex-1-en-4-one	650-3100	Sol	Spec	Henbest	JCS	- (1957)	997
C_6H_8O	Cyclohex-2-enone	-	-	Quant analysis	Boteman	JCS	- (1955)	1996
		650-900	Sol	Spec	Henbest	JCS	- (1957)	997
C_6H_8O	2,5-Dimethylfuran	-	-	Spec	Santhamna	TFS	53 (1957)	1061
C_6H_8O	1-Ethoxybut-1-en-3-yne	650-3150	L	Freq, I	Meakins	JCS	- (1953)	4170
C_6H_8O	1-Ethynylcyclobutanol	3100-3400	L	Ident	Filler	CIL	- (1957)	1322

C_6H_8O	2,4-Hexadienal	1400-2000	G,Sol	Spec	Blout	JACS	70 (1948)	194
C_6H_8O	trans-2-Hexen-4-yn-1-ol	-	Sol	Freq, I	Allan	JCS	- (1955)	1874
C_6H_8O	cis-3-Hexen-5-yn-2-ol	-	Sol	Freq, I	Allan	JCS	- (1955)	1874
C_6H_8O	trans-3-Hexen-5-yn-2-ol	-	Sol	Freq, I	Allan	JCS	- (1955)	1874
C_6H_8O	cis-4-Hexen-2-yn-1-ol	-	Sol	Freq, I	Allan	JCS	- (1955)	1874
C_6H_8O	trans-4-Hexen-2-yn-1-ol	-	Sol	Freq, I	Allan	JCS	- (1955)	1874
C_6H_8O	2-Methoxy-1-penten-3-yne	-	-	Spec, Freq	Petrov	ZOK	28 (1958)	71
$C_6H_8O_2$	Allyl acrylate	-	Sol	Freq	Davison	JCS	- (1953)	2607
$C_6H_8O_2$	1,4-Cyclohexadiene dioxide	3-15 μ	Sol	Spec, Freq	Patterson	AC	26 (1954)	823
$C_6H_8O_2$	Cyclohexanedione	1550-1750	Sol	Spec, Assign	Ananchinku	IANS	- (1960)	1644
$C_6H_8O_2$	γ,γ-Dimethyl-$\Delta^{\alpha,\beta}$-butenolide	1550-1850	Sol	Freq, I	Jones	CJC	37 (1959)	2007
$C_6H_8O_2$	Dimethylcyclobutanedione	-	S	Ident	Reid	JACS	75 (1953)	1655
$C_6H_8O_2$	Ethyl buta-2,3-dienoate	-	-	Purity	Eglinton	JCS	- (1954)	3197
$C_6H_8O_2$	Ethyl but-3-ynoate	-	-	Impurity	Eglinton	JCS	- (1954)	3197
$C_6H_8O_2$	1-α-Furylethanol-1	665-5000	L	Freq	Zeiss	JACS	75 (1953)	897
$C_6H_8O_2$	1,3-Hexadienic acid	-	Sol	Freq	Goulden	SA	6 (1954)	129
		3 μ	Sol	I, Freq	Wenograd	JACS	79 (1957)	5844
$C_6H_8O_2$	cis-2,cis-4-Hexadienoic acid	-	L	Freq, I	Allan	JCS	- (1955)	1874

$C_6H_8O_2$	cis-2,trans-4-Hexadienoic acid	-	-	Purity	Allan	JCS	-	(1955)	1862
		-	Sol	Freq, I	Allan	JCS	-	(1955)	1874
$C_6H_8O_2$	trans-2,cis-4-Hexadienoic acid	-	Sol	Freq, I	Allan	JCS	-	(1955)	1874
$C_6H_8O_2$	trans-2,trans-4-Hexadienoic acid	-	S	Freq, I	Allan	JCS	-	(1955)	1874
$C_6H_8O_2$	δ-Hexenolactone	-	L,S	Freq, Struct	Pinder	JCS	-	(1952)	2236
$C_6H_8O_2$	4-Hydroxy-2,3-dimethylbut-2-enoic lactone	760-2967	L	Freq	Ames	JCS	-	(1954)	375
$C_6H_8O_2$	Methyl pent-3-ynoate	-	-	Freq	Jones	JCS	-	(1954)	3201
$C_6H_8O_2$	γ-Vinyl-γ-butyrolactone	3.4-8.6 μ	-	Ident	Zuidema	JACS	75	(1953)	294
$C_6H_8O_2$	Vinyl crotonate	-	Sol	Freq	Davison	JCS	-	(1953)	2607
		12-15 μ	L	Spec	Patterson	AC	26	(1954)	823
		2-15 μ	L	Assign	Walton	JACS	79	(1957)	3985
$C_6H_8O_3$	α-Acetyl-γ-butyrolactone	2-15 μ	-	Freq	Rasmussen	JACS	71	(1949)	1073
$C_6H_8O_3$	α,γ-Dimethyltetronic acid	-	S,Sol	Freq	Chopra	JCS	-	(1955)	588
$C_6H_8O_3$	3-Ethyltetronic acid	2-15 μ	S	Spec, Freq	Reid	JOC	16	(1951)	33
		1550-1750	S,Sol	Spec, Freq, Struct	Duncanson	JCS	-	(1953)	1207
$C_6H_8O_3$	6-Hydroxyhex-2-ynoic acid	-	S	I	Jones	JCS	-	(1954)	3208
$C_6H_8O_3$	7-Oxo-6,8-dioxabicyclo-[3.2.1.] octane	-	-	CHO, OH, COOH group study	Whetstone	JACS	73	(1951)	5280
$C_6H_8O_3Si$	Phenylsilanetriol	3.15-14.35 μ	S	Freq	Tyler	JACS	77	(1955)	770
$C_6H_8O_4$	cis-1,2-Cyclobutanedicarboxylic acid	-	S	Spec, Ident	Cope	JACS	74	(1952)	168

$C_6H_8O_4$	Dimethyl fumarate	1050-1800	-	Spec	Barnes	IEC	15	(1943)	659
		-	Sol	Freq, I	Goodwin	JACS	75	(1953)	4273
		2-16 μ	L,Sol	Spec, Ident	Walton	AC	28	(1956)	1388
		600-4000	L	Spec, Assign	LeFevre	AJC	11	(1958)	92
$C_6H_8O_4$	Dimethyl maleate	1100-1950	-	Spec	Barnes	IEC	15	(1943)	659
		-	Sol	Freq, I	Goodwin	JACS	75	(1953)	4273
		2-16 μ	L,Sol	Spec, Ident	Walton	AC	28	(1956)	1388
		600-4000	L	Spec, Assign	LeFevre	AJC	11	(1958)	92
$C_6H_8O_4$	Ethyl fumarate	2-15 μ	L	Assign	Walton	JACS	79	(1957)	3985
$C_6H_8O_4$	Isopropylidene malonate	3-6 μ	S,Sol	Struct, Spec	Abramovich	CJC	37	(1959)	361
$C_6H_8O_4$	meso-Lactide	4-8 μ	Sol	Spec, Struct	Wasserman	JACS	72	(1950)	5787
$C_6H_8O_6$	Ascorbic acid	2-13 μ	Sol	Spec	Sternglanz	APS	10	(1956)	77
$C_6H_8O_6$	L-Ascorbic acid	2-8 μ	Sol	Spec, Struct	Williams	JACS	59	(1937)	1422
		700-3600	S	Spec	Weigl	AC	24	(1952)	1483
$C_6H_8O_6$	Dimethyl dihydroxy-fumarate	3.16-11.41 μ	S,Sol	Freq, I	Goodwin	JACS	76	(1954)	5599
$C_6H_8O_6$	Glucuronic acid lactone	5.5-6.5 μ	S	Spec	Ultee	AC	27	(1955)	557
$C_6H_8O_6$	D-Glucuronofurono-6-3-lactone	700-1000	S	Freq, I	Barker	JCS	-	(1954)	4550
$C_6H_8O_7$	Dimethyl-α-keto-α'-hydroperoxysuccinate	-	S	Freq	Goodwins	JACS	76	(1954)	5599
$C_6H_8O_7$	Dimethyl fumarate ozonide	-	Sol	Freq, I, Ident	Goodwin	JACS	75	(1953)	4273
$C_6H_8O_7$	Dimethyl maleate ozonide	-	Sol	Freq, I, Ident	Goodwin	JACS	75	(1953)	4273
C_6H_8S	2,3-Dimethylthiophene	-	-	Ident	Birch	JCS	-	(1951)	3411
C_6H_8S	3,4-Dimethylthiophene	-	-	Ident	Marvel	JACS	77	(1955)	66
C_6H_8S	2-Ethylthiophene	400-3500	L	Freq	Hidalgo	CPR	239	(1954)	253

C_6H_8Si	Phenylsilane	-	L,Sol	Ref	Harvey	JACS	76 (1954)	4555
		2-16 μ	Sol	Freq	Kniseley	SA	15 (1959)	651
		2050-2250	Sol	Freq	Smith	SA	15 (1959)	412
C_6H_9D	t-Butylacetylene-d_1	-	G	Spec	Zeil	ZN	15a (1960)	1011
C_6H_9D	1-Hexene-1-d_1	450-4000	-	Substitution effect	Hoffman	A	618 (1958)	276
C_6H_9D	2-Hexene-2-d_1	450-4000	-	Substitution effect	Hoffman	A	618 (1958)	276
C_6H_9D	3-Hexene-cis-3-d_1	450-4000	-	Substitution effect	Hoffman	A	618 (1958)	276
$C_6H_9DO_4$	Adipic acid-d_1	-	-	Freq, Struct	Bratoz	SA	8 (1956)	249
C_6H_9Br	1-Bromocyclohexene	-	-	Ident	Goering	JACS	77 (1955)	3465
C_6H_9Br	1-Bromocyclohex-2-ene	650-3100	Sol	Spec	Henbest	JCS	- (1957)	997
C_6H_9Br	3-Bromocyclohexene	-	L	Analysis	Westfahl	JACS	77 (1955)	2910
C_6H_9Br	4-Bromo-1-cyclohexene	-	G,L	Spec, Struct	Sakashita	NKZ	80 (1959)	972
C_6H_9Br	cis-1-Bromo-2,5-hexadiene	-	-	Struct	Bateman	JCS	- (1950)	936
C_6H_9Br	trans-1-Bromo-2,5-hexadiene	-	-	Struct	Bateman	JCS	- (1950)	936
		5-15 μ	L	Ident	Lora	JCS	- (1950)	1418
C_6H_9Br	3-Bromo-1,5-hexadiene	-	-	Struct	Lora	JCS	- (1950)	1418
C_6H_9Br	1-Bromo-2-hexyne	-	L	Freq	Wotiz	JACS	72 (1950)	5055
C_6H_9BrO	2-Bromocyclohexanone	-	Sol	Freq, Config	Corey	JACS	75 (1953)	2301
		-	Sol	IR shifts	Leonard	JACS	80 (1958)	6039
$C_6H_9BrO_2$	Ethyl-α-(bromomethyl) acrylate	-	-	Freq	Ferris	JOC	20 (1955)	780
$C_6H_9Cl^{35}$	1-Chloro-2-t-butylacetylene (Isotopic)	-	G	Spec	Zeil	ZN	15a (1960)	1011
$C_6H_9Cl^{37}$	1-Chloro-2-t-butylacetylene (Isotopic)	-	G	Spec	Zeil	ZN	15a (1960)	1011

C_6H_9Cl	1-Chlorocyclohexene	8-15 μ	L	Spec	Stevens	JACS	74 (1952)	4876
		-	-	Ident	Goering	JACS	77 (1955)	3465
C_6H_9ClO	α-Chlorocyclohexanone	-	Sol	Freq, Config	Corey	JACS	75 (1953)	2301
		1675-1705	-	-Cl shifts	Corey	JACS	77 (1955)	5418
		2-25 μ	Sol	Spec, Iso	Kojima	JACS	81 (1959)	4159
		5-7 μ	Sol	Spec, Taut	Campbell	JACS	82 (1960)	5426
C_6H_9ClO	m-Chlorocyclohexanone	5-7 μ	Sol	Spec, Taut	Campbell	JACS	82 (1960)	5426
C_6H_9ClO	p-Chlorocyclohexanone	5-7 μ	Sol	Spec, Taut	Campbell	JACS	82 (1960)	5426
C_6H_9ClO	Ethylmethyl (Chloroethynyl) carbinol	-	-	RC = CR freq	McLamore	JOC	20 (1955)	109
C_6H_9ClO	Isopropenyl 2-chloroethyl ketone	-	Sol	Freq	Davison	JCS	- (1953)	2607
$C_6H_9ClO_2$	2-Chloroallyl glycidyl ether	-	-	Ident	Noland	JACS	77 (1955)	3395
$C_6H_9ClO_2$	Ethyl α-(Chloromethyl) acrylate	-	-	Freq	Ferris	JOC	20 (1955)	780
$C_6H_9ClO_2$	cis-Ethyl β-chloroisocrotonate	3.35-14.6 μ	L	I	Hatch	JACS	77 (1955)	1136
$C_6H_9ClO_2$	trans-Ethyl β-chloroisocrotonate	3.24-15.1 μ	L	I	Hatch	JACS	77 (1955)	1136
$C_6H_9Cl_3OS$	Butylthio trichloroacetate	2.5-16 μ	Sol	Freq, Struct	Nyquist	SA	15 (1959)	514
$C_6H_9Cl_3O_2$	t-Butyl trichloroacetate	-	L	Freq	Flett	JCS	- (1952)	3355
C_6H_9FO	o-Fluorocyclohexanone	5-7 μ	Sol	Spec, Taut	Campbell	JACS	82 (1960)	5426
C_6H_9FO	p-Fluorocyclohexanone	5-7 μ	Sol	Spec, Taut	Campbell	JACS	82 (1960)	5426
$C_6H_9F_3O$	Trifluoromethyl n-butyl ketone	650-5000	Sol,L	Freq	Griffin	SA	16 (1960)	1464

$C_6H_9F_3OS$	Butylthio trifluoroacetate	2.5-16 μ	Sol	Freq, Struct	Nyquist	SA	15 (1959)	514
$C_6H_9F_3O_2$	2,2,2-Trifluoroethyl butyrate	2-16 μ	L	Freq, Spec	Rappaport	JACS	75 (1953)	2695
		-	L	Freq	Filler	JACS	76 (1954)	1376
$C_6H_9IN_2O$	1,4(3,4)-Dihydro-1,3-dimethyl-4-oxopyrimidinium iodide	-	S	Freq	Brown	JCS	- (1955)	211
C_6H_9IO	Ethylmethyl(iodoethynyl) carbinol	-	-	Freq	McLamore	JOC	20 (1955)	109
C_6H_9N	2,3-Dimethyl-2-butenenitrile	-	-	Analysis	Corey	JACS	75 (1953)	1163
C_6H_9N	2,3-Dimethyl-3-butenenitrile	-	-	Analysis	Corey	JACS	75 (1953)	1163
C_6H_9N	2,4-Dimethylpyrrole	-	Sol	Freq	Mirone	ANCR	48 (1958)	72
C_6H_9N	2,5-Dimethylpyrrole	3480	Sol	Freq	Pozefsky	AC	27 (1955)	1466
C_6H_9N	2-Ethylpyrrole	-	-	Ident	Herz	JACS	76 (1954)	576
C_6H_9N	N-Ethylpyrrole	2900-3100	Sol	Freq	Hill	JCS	- (1958)	760
C_6H_9NO	6-Methyl-5,6-dihydro-2-pyridone	600-3600	S	Spec	Edwards	CJC	32 (1954)	683
C_6H_9NO	N-Methyl-2-hydroxymethylpyrrole	-	-	Freq	Ryskiewicz	JACS	76 (1954)	5802
C_6H_9NO	2-Pyrrolemethylcarbinol	-	-	Bounded OH	Herz	JACS	76 (1954)	576
C_6H_9NO	3,4,5-Trimethylisoxazole	2-16 μ	L	Spec, Freq	Shechter	JACS	76 (1954)	2716
C_6H_9NO	N-Vinylpyrrolidone	2-9 μ	L	Spec, Freq	Oster	JACS	76 (1954)	1393
		-	Sol	Freq, Spec	Potts	SA	15 (1959)	679

C_6H_9NOS	trans-2-Hydroxy-cyclopentyl thiocyanate	-	-	Absorption	Tamelen	JACS	73 (1951)	3444
$C_6H_9NO_2$	N-Acetyl-2-pyrrolidinone	1600-1800	L, Sol	Freq	Hall	JACS	80 (1958)	6428
$C_6H_9NO_2$	N-Methylglutarimide	1600-1800	L,Sol	Freq	Hall	JACS	80 (1958)	6428
$C_6H_9NO_2.HCl$	Baikiain hydrochloride	2-16 μ	S	Spec	Zacharius	JACS	76 (1954)	2908
$C_6H_9NO_3$	N-Hydroxy- α,β-dimethyl-succinimide	-	S	Freq	Ames	JCS	- (1955)	631
$C_6H_9NO_3S$	N-Acetylthiazolidine-4-carboxylic acid	1000-3400	S	Spec	Cavallits	JOC	15 (1950)	815
$C_6H_8NO_4$	Biacetyl-N-acetoxyammonia	-	-	Freq	Freeman	JACS	80 (1958)	5954
$C_6H_9NO_4S$	N-Acetylthiazolidine-4-carboxylic acid sulfoxide	1000-3400	S	Spec	Cavallits	JOC	15 (1950)	815
$C_6H_9NO_6$	Dimethyl 2-(methyl-nitronato) malonate	2-16 μ	Sol	Spec, Freq	Shechter	JACS	76 (1954)	2716
$C_6H_9NS_3$	5-Aza-2,8,10-Trithia-adamantan	-	-	Freq	Craig	JACS	77 (1955)	1283
$C_6H_9N_2O_2P$	Phenyl diamino-phosphionate	-	-	Freq	Bellamy	JCS	- (1952)	1701
		-	-	Freq	Bell	JACS	76 (1954)	5185
		-	-	Bond study	Steiger	ZE	61 (1957)	1004
$C_6H_9N_3$	2-Amino-4,6-dimethyl-pyrimidine	2-25 μ	S	Spec, Freq	Short	JCS	- (1952)	168
		3 μ	Sol	FC, Freq	Mason	JCS	- (1958)	3619
$C_6H_9N_3$	4-Amino-2,6-dimethyl-pyrimidine	2-25 μ	S	Spec, Freq	Short	JCS	- (1952)	168
$C_6H_9N_3$	2,4,6-Trimethyl-1,3,5-triazine	2-15 μ	Sol	Spec	Goubean	JPC	58 (1954)	1078
$C_6H_9N_3O.$ $1/2H_2O$	2,3,4-Triazabicyclo [3.4.0]-3-hydroxy-1,4-nonadiene hemihydrate	2-16 μ	S	Spec, Struct	Banks	JOC	18 (1953)	267

$C_6H_9N_3O_2$	2-Amino-4,6-dimethoxy-pyrimidine	2-25 μ	S	Spec, Freq	Short	JCS	-	(1952)	168
$C_6H_9N_3O_2$	Histidine	625-4000	S	Spec, Assign	Garfinkel	JACS	80	(1958)	3807
$C_6H_9N_3O_2$	l-Histidine	600-4000	S	Ident	Epp	AC	24	(1957)	1283
$C_6H_9N_3O_2.HCl$	l-Histidine hydro-chloride	2-15 μ	S	Spec, Ident	Larsson	ACS	4	(1950)	27
		1538-909	Sol	Spec	Parker	SA	16	(1960)	910
$C_6H_9N_3O_3$	2,4,6-Trimethoxy-S-triazine	2-15 μ	-	Spec	Finkelshtein	OS	5	(1958)	264
$C_6H_9N_5OS$	5-Nitroso-6-amino-4-methylamino-2-methyl-thiopyrimidine	2-16 μ	S	Spec, Freq, Assign	Brownlie	JCS	-	(1959)	360
C_6H_9P	Trivinylphosphine	650-3500	L	Freq assign, Spec	Kaesz	SA	15	(1959)	360
C_6H_{10}	t-Butylacetylene	-	G	Spectroscopic const	Zeil	ZN	15a	(1960)	1011
C_6H_{10}	Cyclohexene	1-30 μ	G	Spec	Kattering	P	4	(1933)	39
		2.6-3.8 μ	Sol	Spec, Assign	Fox	PRS	175	(1940)	208
		3 μ	-	Spec	Gore	IEC	13	(1941)	768
		1050-1800	-	Spec, Freq	Barnes	IEC	15	(1943)	659
		860-940	-	Spec	Thompson	JCS	-	(1944)	183
		-	-	Thermo	Beckett	JACS	70	(1948)	5227
		-	-	Thermo	Epstein	JRNB	42	(1949)	379
		2.2-4.2 μ	Sol	Assign, Spec	Plyler	JRNB	43	(1949)	37
		2-15 μ	L	Spec, Struct	Shreve	AC	23	(1951)	282
		-	Sol	Freq	Jones	JACS	74	(1952)	5652
		5300-9000	L	Spec, I, Freq	Lauer	APS	6	(1952)	29
		-	-	Ident, Config	Cope	JACS	75	(1953)	3212
		650-3100	Sol	Freq, I	Henbest	JCS	-	(1954)	800
		-	-	Freq, I	O'Connor	AC	26	(1954)	1726
		-	-	Ident	Hine	JACS	77	(1955)	594
		13.95 μ	Sol	Ident	Dewhurst	JCP	24	(1956)	1254
		3-4 μ	L,Sol	Stretch freq	Tallent	AC	28	(1956)	953
		650-3100	Sol	Spec	Henbest	JCS	-	(1957)	997
C_6H_{10}	2-Cyclopropyl-propene	2-15 μ	G	Analysis	Derter	JACS	71	(1949)	2482
		-	L,Sol	Freq	Slabey	JACS	76	(1954)	3604

C_6H_{10}	Dicyclopropyl	2-16 μ	L,Sol	Spec	Slabey	JACS	74	(1952)	4928
		-	L,Sol	Freq	Slabey	JACS	76	(1954)	3604
C_6H_{10}	1,3-Dimethyl-1,3-butadiene	700-1450	-	Spec	Thompson	JCS	-	(1944)	183
		700-1500	L	Spec	Whiffen	TFS	41	(1945)	200
C_6H_{10}	2,3-Dimethyl-1,3-butadiene	-	-	Quant Mech	Mulliken	JCP	7	(1939)	121
		600-1800	-	Spec	Thompson	TFS	41	(1945)	246
		-	Sol	Freq	Davison	JCS	-	(1953)	2607
		-	L	Freq, Struct	Szasz	TFS	49	(1953)	258
C_6H_{10}	3,3-Dimethyl-1-butyne	-	-	Assign	Sheppard	JCP	17	(1949)	455
		-	-	Freq	Ferigle	JCP	20	(1952)	1928
C_6H_{10}	2-Ethyl-1,3-butadiene	650-3900	-	Spec	Marvel	JACS	70	(1948)	3842
C_6H_{10}	Ethylidenecyclobutane	2-15 μ	G	Spec, Assign	Derfer	JACS	71	(1949)	2482
C_6H_{10}	Ethylmethylallene	847-2960	-	Table	Bailey	JOC	20	(1955)	95
C_6H_{10}	Diallyl	-	-	Quant mech	Mulliken	JCP	7	(1939)	121
		-	-	Molecular ext coefficient	Bateman	JCS	-	(1950)	936
		-	-	Reactant in bromination rearrangement	Lora	JCS	-	(1950)	1419
C_6H_{10}	1,2-Hexadiene	-	-	Freq, Struct	Hennion	JACS	71	(1949)	1964
C_6H_{10}	2,4-Hexadiene	-	-	Quant mech	Mulliken	JCP	7	(1939)	121
		1400-2000	G,Sol	Spec	Blout	JACS	70	(1948)	194
C_6H_{10}	1-Hexyne	-	-	Assign	Cleveland	JCP	10	(1942)	172
		-	-	Freq	Ferigle	JCP	20	(1952)	1928
		-	-	Vibrations, Vapour-liquid shift	Benson	JCP	27	(1952)	1164
		3.05 μ	Sol	Absorbance	Curry	AC	31	(1959)	960
		3400-3800	Sol	H bond	West	JACS	81	(1959)	1614
C_6H_{10}	3-Hexyne	-	-	Assign	Cleveland	JCP	10	(1942)	172
C_6H_{10}	2-Methyl-1,3-pentadiene	-	Sol	Freq	Davison	JCS	-	(1953)	2607

C_6H_{10}	3-Methyl-1,3-pentadiene	650-3900	-	Spec	Marvel	JACS	70	(1948)	3842
C_6H_{10}	4-Methyl-1,3-pentadiene	700-1500	-	Quant mech	Mulliken	JCP	7	(1939)	121
		700-1450	-	Spec	Thompson	JCS	-		
		700-1500	L	Spec	Whiffen	TFS	41	(1945)	200
		-	Sol	Freq	Davison	JCS	-	(1953)	2607
$C_6H_{10}D_2$	cis-3-Hexene-3,4-d_2	450-4000	-	Effect of substitution	Hoffman	A	618	(1958)	276
$C_6H_{10}BrCl$	1-Bromo-1-chlorocyclohexane	-	-	Ident	Goering	JACS	77	(1955)	3465
$C_6H_{10}BrCl$	cis-1-Bromo-2-chlorocyclohexane	-	-	Ident	Goering	JACS	77	(1955)	3465
$C_6H_{10}BrCl$	trans-1-Bromo-2-chlorocyclohexane	-	-	Ident	Goering	JACS	77	(1955)	3465
$C_6H_{10}Br_2$	1,1-Dibromocyclohexane	-	-	Ident	Goering	JACS	77	(1955)	3465
$C_6H_{10}Br_2$	1,2-Dibromocyclohexane	400-3000	L	Spec, Analysis	Klaeboe	ACS	11	(1957)	1677
$C_6H_{10}Br_2$	trans-1,2-Dibromocyclohexane	-	L	Freq, I	Kozima	JACS	76	(1954)	1965
		-	-	Ident	VanTameleu	JACS	77	(1955)	1704
$C_6H_{10}Br_2$	cis-1,4-Dibromocyclohexane	7-23μ	L	Spec	Bennett	JACS	74	(1952)	5076
		7-23μ	Sol	Spec	Yoshino	BCSJ	27	(1954)	592
$C_6H_{10}Br_2$	trans-1,4-Dibromocyclohexane	2-16μ	Sol	Spec	Bennett	JACS	74	(1952)	5076
		7-23μ	Sol	Spec	Yoshino	BCSJ	27	(1954)	592
$C_6H_{10}Br_2$	4,6-Dibromo-1-hexene	-	-	Group study	Bateman	JCS	-	(1950)	936
$C_6H_{10}Br_2O_2$	Ethyl β,β'-dibromoisobutyrate	-	-	Freq	Ferris	JOC	20	(1955)	780
$C_6H_{10}ClNO$	2-Chloronitrosocyclohexane	-	-	Freq, Struct	Luttke	ZE	61	(1957)	976
$C_6H_{10}ClNO_3$	Ethyl N-chloroacetyl-N-methylcarbamate	650-4000	Sol	Spec	Pianka	JCS	-	(1960)	983

$C_6H_{10}ClNO_3$	Propyl N-chloroacetyl-carbamate	650-4000	Sol	Spec	Pianka	JCS	-	(1960)	983
$C_6H_{10}Cl_2$	1,1-Dichlorocyclo-hexane	-	-	Ident	Goering	JACS	77	(1955)	3465
$C_6H_{10}Cl_2$	cis-1,2-Dichlorocyclo-hexane	8-15 μ	Sol	Spec	Stevens	JACS	74	(1952)	4876
		-	-	Ident	Lindsey	JACS	75	(1953)	5613
$C_6H_{10}Cl_2$	trans-1,2-Dichlorocyclo-hexane	8-15 μ	Sol	Spec	Stevens	JACS	74	(1952)	4876
		-	L	Freq, I	Kozima	JACS	76	(1954)	1965
		400-3000	L	Spec	Klaeboe	ACS	11	(1957)	1677
$C_6H_{10}Cl_2$	cis-1,4-Dichlorocyclo-hexane	2-16 μ	L	Spec	Bennett	JACS	74	(1952)	5076
		7-23 μ	Sol	Spec, Solvent effect	Yoshino	BCSJ	27	(1954)	592
$C_6H_{10}Cl_2$	trans-1,4-Dichlorocyclo-hexane	2-16 μ	Sol	Spec	Bennett	JACS	74	(1952)	5076
		-	-	Assign	Kozima	JACS	75	(1953)	166
		7-23 μ	Sol	Spec, Solvent effect	Yoshino	BCSJ	27	(1954)	592
		-	S,Sol	Iso	Yoshino	JCP	23	(1955)	1974
		760-785	Sol	Solvent solute interaction	Yoshino	JCP	24	(1956)	76
$C_6H_{10}Cl_2$	1,1-Dichloro-3,3-dime-thyl-1-butene	8-14 μ	-	Freq	Schmerling	JACS	71	(1949)	701
		7.5-14 μ	-	Quant ident	Schmerling	JACS	71	(1949)	2015
$C_6H_{10}Cl_2$	trans-1,4-Dichloro-2,3-dimethyl-2-butene	3.4-14.2 μ	Sol	Ident	Hellman	JACS	76	(1954)	1175
$C_6H_{10}Cl_2F_2O$	1,1-Difluoro-2,2-dichloroethyl n-butyl ether	3-15 μ	G,L	Spec	Park	JACS	73	(1951)	861
$C_6H_{10}Cl_2O$	cis-2,5-Bis-(chloro-methyl)tetrahydrofuran	-	-	Ident	Cope	JACS	77	(1955)	393
$C_6H_{10}Cl_2O$	t-Butyl dichloromethyl ketone	-	S,L, Sol,G	Freq	Bellamy	JCS	-	(1957)	4294
$C_6H_{10}Cl_2OS$	Butylthio dichloroacetate	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA	15	(1959)	514

$C_6H_{10}Cl_2Si$	Diallyldichloro-silane	8-15 μ	Sol	Spec	Scott	JACS	73	(1951)	2599
$C_6H_{10}F_3NO$	N-n-Butyltrifluoro-acetamide	2-15 μ -	L,Sol L	Spec,Group study Freq	Letaw Robson	JCP JACS	21 77	(1953) (1955)	1621 498
$C_6H_{10}F_3NO$	N,N-Diethyltrifluoro-acetamide	-	L,S	Freq	Robson	JACS	77	(1955)	498
$C_6H_{10}F_4O$	1,1,2,2-Tetrafluoro-ethyl n-butyl ether	2-15 μ	G	Spec	Park	JACS	73	(1951)	1329
$C_6H_{10}I_2O$	Cyclohexanone-iodine complex	400-3500	Sol	Freq, I	Yamada	JACS	82	(1960)	1543
$C_6H_{10}N_2O$	Diazomethyl t-butyl ketone	-	-	Band freq	Wiberg	JACS	76	(1954)	5367
$C_6H_{10}N_2O$	3-Methyl-5-ethoxy-pyrazole	2.4-4.5 μ	-	Spec	Bogunets	OS	5	(1958)	707
$C_6H_{10}N_2O$	1-Methyl-2-β-hydroxy-ethylimidazole	-	-	Struct	Lawson	JACS	75	(1953)	3398
$C_6H_{10}N_2O$	1,3,5,6-Tetrahydro-6-keto-1,3-dimethyl-pyridazine	-	Sol	Struct, Freq	Overend	JCS	-	(1950)	3500
$C_6H_{10}N_2OS$	3-Ethyl-1-methyl-2-thiohydantion	800-2500	S	Assign	Elmore	JCS	-	(1958)	3489
$C_6H_{10}N_2OS$	5-Isopropyl-2-thio-hydantion	800-2500	S	Assign	Elmore	JCS	-	(1958)	3489
$C_6H_{10}N_2OS$	5-n-Propyl-2-thio-hydantion	800-2500	S	Assign	Elmore	JCS	-	(1958)	3489
$C_6H_{10}N_2O_2$	1,2-Cyclohexanedione dioxime	2-16 μ	S	Spec, H bond	Voter	AC	23	(1951)	1730
$C_6H_{10}N_2O_2$	2,4-Dimethyl-1,3-cyclo-butanedione dioxime	-	-	Freq, Ident	Reid	JACS	75	(1953)	1655

$C_6H_{10}N_2O_2$	N-(n-Butyl)-Sydnone	2-15 μ	L	Spec	Fugge	JACS	77 (1955)	1843
$C_6H_{10}N_2O_3$	γ-Methyleneglutamine	2-15 μ	S	Spec, Ident	Zacharius	JACS	76 (1954)	1961
$C_6H_{10}N_2O_4$	cis-3,4-Dinitro-3-hexene	1676	-	Struct	Mead	JOC	23 (1958)	921
$C_6H_{10}N_3O$	N-Morpholyltrichloro-acetamide	1000-3500	L,Sol	Assign, Struct, H bond	Grivas	CJC	37 (1959)	795
$C_6H_{10}N_4$	6-Amino-4-methylamino--2-methylpyrimidine	2-15 μ	S	Spec, Freq, Assign	Brownlie	JCS	- (1950)	3062
$C_6H_{10}N_4O_8$	3,3,4,4-Tetranitro-hexane	-	Sol	Ext coeff	Grabiel	JACS	77 (1955)	1293
$C_6H_{10}N_6O_2$	N-(α-Carboxy) Ethyl-melamine	2-16 μ	S	Spec, Struct	Padgett	JACS	80 (1958)	803
$C_6H_{10}N_6O_2$	N-(β-Carboxy) Ethyl-melamine	2-16 μ	S	Spec, Struct	Padgett	JACS	80 (1960)	803
$C_6H_{10}O$	2-Acetyl-but-1-ene	-	Sol	Freq, Spec	Potts	SA	15 (1959)	679
$C_6H_{10}O$	Allyl ether	825-1975	-	Spec	Barnes	IEC	15 (1943)	659
		-	Sol	Freq	Davison	JCS	- (1953)	2607
$C_6H_{10}O$	Cyclobutyl methyl ketone	5-7 μ	L	Freq	Friess	JACS	74 (1952)	1302
$C_6H_{10}O$	Cyclohexanone	0.8-2.5 μ	L	Spec	Sappenfield	PR	33 (1929)	37
		-	-	Freq, Beer's law	Barnes	IEC	15 (1943)	659
		1050-1800	-	Spec	Barnes	IEC	15 (1943)	659
		1700	Sol	Freq	Flett	TFS	44 (1948)	767
		1742	G	Freq	Hartwell	JCS	- (1948)	1436
		1700	Sol	Vibrations, I	Richards	TFS	45 (1949)	874
		1650-1800	Sol	Ext coefficient	Cross	TFS	47 (1951)	354
		-	Sol	Freq, Analysis	Copper	JCS	- (1952)	1180
		1600-1800	Sol	Freq.	Hall	JACS	80 (1958)	6428

		-	Sol	Analysis	Childer	AC	25	(1953)	1311
		-	Sol	Freq	Corey	JACS	75	(1953)	3297
		-	Sol	Freq, Config	Corey	JACS	75	(1953)	2301
		-	Sol	Freq, H bond	Searles	JACS	75	(1953)	71
		-	Sol	Freq	Leonard	JACS	76	(1954)	3463
		-	-	Ident	Price	JACS	76	(1954)	1211
		-	-	Freq	Snyder	JACS	76	(1954)	4601
		-	Sol	Freq	Bartlett	JACS	77	(1955)	2806
		1712	-	Freq	Corey	JACS	77	(1955)	5418
		-	L	Freq	Schubert	JACS	77	(1955)	4172
		8.6-9.3μ	Sol	Spec, I	Slowinski	JOSA	45	(1955)	396
		-	-	I	Brown	JCP	24	(1956)	1281
		5.5-6.5μ	Sol	H bond	Juitric	JACS	78	(1956)	1147
		400-4000	Sol	Spec, Config, Ext coefficient	Cummings	JCS	-	(1957)	3847
		-	-						
		-	-	Analysis	Wheeler	AC	29	(1957)	538
		-	Sol	Carbonyl max	Leonard	JACS	80	(1958)	6039
		-	Sol	Freq	Mirone	AAN	24	(1958)	54
		-	L	Temp dependent of I	Person	JCP	28	(1958)	319
		-	Sol	Freq, I	Thompson	SA	13	(1958)	236
		1650-1850	G,L,S	Solvent effect on freq	Bellamy	TFS	55	(1959)	14
		-	Sol	H bond	Tamres	JACS	81	(1959)	2100
		600-4000	Sol	Carbonyl doublet, Solvent effect	Allen	JCS	-	(1960)	1909
		-	Sol	Freq	Burer	HCA	43	(1960)	1487
$C_6H_{10}O$	Cyclohexene oxide	1250	-	Struct	Field	JCP	18	(1950)	1298
		2590-2689	Sol	H bond, Freq	Searles	JACS	73	(1951)	3704
		3-15μ	L	Spec, Freq	Patterson	AC	26	(1954)	823
		2800-3100	Sol	C-H stretching band	Henbest	JCS	-	(1957)	1459
		2-15μ	Sol	Spec, Struct, Freq	Bomstein	AC	30	(1958)	544
$C_6H_{10}O$	Cyclohex-2-en-1-ol	-	Sol	Freq, H bond	Bateman	JCS	-	(1952)	4594
		650-3100	L	Freq, I	Henbest	JCS	-	(1954)	800
		650-3100	Sol	Spec	Henbest	JCS	-	(1957)	997
$C_6H_{10}O$	Cyclohex-3-en-1-ol	650-3100	Sol	Spec	Henbest	JCS	-	(1957)	997
$C_6H_{10}O$	1-Cyclopentenemethanol	-	-	Freq, Struct	Dreiding	JACS	75	(1953)	939
$C_6H_{10}O$	2,3-Dihydro-2,2-dimethylfuran	-	-	Freq	Barr	JCS	-	(1954)	3766

$C_6H_{10}O$	2-Ethoxy-1,3-butadiene	-	-	Spec, Freq	Petrov	ZOK	28 (1958)	71
$C_6H_{10}O$	Ethyl cyclopropyl ketone	-	L,Sol	Freq	Slabey	JACS	76 (1954)	3604
$C_6H_{10}O$	trans-2,trans-4-Hexadienol	-	Sol	Freq, I	Allan	JCS	- (1955)	1874
$C_6H_{10}O$	Mesityl oxide	-	Sol	Solvent effect on freq	Ito	JCP	31 (1959)	1694
$C_6H_{10}O$	3-Methoxy-3-methylbutyne-1	300-3800	Sol,S	Freq	Nyquist	SA	16 (1960)	417
$C_6H_{10}O$	2-Methylcyclo-pentanone	1650-1800	Sol	Ext coeff	Cross	TFS	47 (1951)	354
$C_6H_{10}O$	2-Methylenecyclo-pentanol	-	-	Freq, Struct	Drieding	JACS	75 (1953)	939
$C_6H_{10}O$	4-Methyl-3-pentene-2-one	1050-1800	-	Freq, Spec	Barnes	IEC	15 (1943)	659
		500-1750	L	Assign	Thompson	JCS	- (1945)	640
		3.25-7.88μ	L	Iso	Gray	JACS	69 (1947)	1630
$C_6H_{10}O$	2-Methyl-1-pentenone-4	-	Sol	Ext coeff	Bernard	JCS	- (1950)	915
$C_6H_{10}O$	Vinyl propyl ketone	-	Sol	Freq	Davison	JCS	- (1953)	2607
$C_6H_{10}OS$	5,6-Dihydro-2,3-dimethyl-1,4-oxathiin	-	-	Freq	Parhom	JACS	77 (1955)	1169
$C_6H_{10}OS$	3-Ketothiacyclo-heptane	-	-	Band study	Leonard	JACS	74 (1952)	917
$C_6H_{10}O_2$	Acetonylacetone	1150-1800	-	Spec	Barnes	IEC	15 (1943)	659
$C_6H_{10}O_2$	Adipic aldehyde	-	-	Ident	Kuhn	JACS	76 (1954)	328
$C_6H_{10}O_2$	Allylcarbinyl acetate	2-16μ	Sol	Spec, Ident	Roberts	JACS	73 (1951)	5034
$C_6H_{10}O_2$	ϵ-Caprolactone	1600-1800	Sol	Freq	Hall	JACS	80 (1958)	6428
$C_6H_{10}O_2$	Cyclobutyl acetate	2-16μ	Sol	Spec, Ident	Roberts	JACS	73 (1951)	5034

$C_6H_{10}O_2$	Cyclohexene-4,5-diol	-	Sol	Band freq	VanTameleu	JACS	77 (1955)	1704
$C_6H_{10}O_2$	Cyclohexene-1-hydro-peroxide	2-15μ	L	Spec	Shreve	AC	23 (1951)	282
		5-15μ	Sol	Spec	Minkoff	PRS	224 (1954)	176
$C_6H_{10}O_2$	Cyclohexenyl-3-hydroperoxide	-	Sol	Freq, H bond, Analysis	Bateman	JCS	- (1952)	4594
$C_6H_{10}O_2$	Cyclopropylcarbinyl acetate	2-16μ	Sol	Spec, Ident	Roberts	JACS	73 (1951)	5034
$C_6H_{10}O_2$	Diallyl ether monoxide	2-15μ	Sol,L	Spec, Freq	Patterson	AC	26 (1954)	823
$C_6H_{10}O_2$	γ,γ-Dimethylbutano-lide	1550-1850	Sol	Freq, I	Jones	CJC	37 (1959)	2007
$C_6H_{10}O_2$	cis-2,3-Expoxy-cyclohexanol	2800-3100	Sol	C-H band study	Henbest	JCS	- (1957)	1459
$C_6H_{10}O_2$	3,4-Epoxycyclohexanol	2800-3100	Sol	C-H band study	Henbest	JCS	- (1957)	1459
$C_6H_{10}O_2$	1-Ethoxycarbonyl-2-methyl-trans-ethylene	-	Sol	Freq, Spec	Potts	SA	15 (1959)	679
$C_6H_{10}O_2$	Ethyl crotonate	1050-1800	-	Freq, Spec	Barnes	IEC	15 (1943)	659
		500-1750	L	Assign	Thompson	JCS	- (1945)	640
		10-15μ	L	Spec	Patterson	AC	26 (1954)	823
		-	Sol	Freq	Felton	JCS	- (1955)	2170
		2-15μ	-	Assign	Watton	JACS	79 (1957)	3985
		800-1500	Sol	Assign	Katritzky	SA	16 (1960)	954
		-	-	Assign	Katritzky	SA	16 (1960)	964
$C_6H_{10}O_2$	Ethyl cyclopropane-carboxylate	-	Sol	Freq, I	Piehl	JACS	75 (1953)	5023
		-	-	Freq	Ferris	JOC	20 (1955)	780
$C_6H_{10}O_2$	Ethyl methacrylate	10-15μ	L	Spec	Patterson	AC	26 (1954)	823
		-	Sol	Freq	Felton	JCS	- (1955)	2170
		-	Sol	Freq, I	Thompson	SA	13 (1958)	236
		-	-	Assign	Katritzky	SA	16 (1960)	964

$C_6H_{10}O_2$	Ethyl α-methylacrylate	800-1500	Sol	Assign	Katritzky	SA	16 (1960)	954
$C_6H_{10}O_2$	trans-2-trans-4-Hexadiene-1,6-diol	-	L	Freq, I	Allan	JCS	- (1955)	1874
$C_6H_{10}O_2$	2,5-Hexanedione	2-15 μ	Sol	Spec, Assign	Tensmeyer	JPC	64 (1960)	1655
$C_6H_{10}O_2$	δ-Hexanolactone	-	S,L	Freq, Struct	Pinder	JCS	- (1952)	2236
$C_6H_{10}O_2$	cis-3-Hexenoic acid	0.9-3 μ	Sol	Spec	Holman	AC	28 (1956)	1533
$C_6H_{10}O_2$	trans-3-Hexenoic acid	2-16 μ	Sol	Spec, Freq	Howton	JOC	16 (1951)	1405
$C_6H_{10}O_2$	2-Hydroxycyclohexanone	2-12 μ	S,Sol	Spec	Sheehan	JACS	72 (1950)	3376
		-	-	Ident	Highet	JACS	77 (1955)	4399
		-	S,L	Freq	Jaeger	JCS	- (1955)	160
$C_6H_{10}O_2$	4-Hydroxy-2,3-dimethyl-butanoic lactone	707-3597	L	Freq	Ames	JCS	- (1954)	375
$C_6H_{10}O_2$	Isopropyl acrylate	-	Sol	Freq	Davison	JCS	- (1953)	2607
$C_6H_{10}O_2$	Methyl angelate	3.34-13.6 μ	L	Freq, I	Dreiding	JACS	76 (1954)	1902
$C_6H_{10}O_2$	3-Methyl-3-hydroperoxy-pentyne-1	2-6 μ	-	Spec	Milas	JACS	74 (1952)	1471
$C_6H_{10}O_2$	Methyl pent-4-enoate	200-3200	-	Spec, Assign	Hidalgo	ARS	52B (1956)	627
$C_6H_{10}O_2$	trans-2-Methyl-2-pentenoic acid	600-1900	Sol	Spec	Cason	JOC	19 (1954)	1947
$C_6H_{10}O_2$	Methyl tiglate	3.34-13.50 μ	L	Freq, I	Dreiding	JACS	76 (1954)	1902
$C_6H_{10}O_2$	Tetrahydrofurfuryl vinyl ether	-	-	Ident	Adelman	JACS	75 (1953)	2678
		-	-	Freq, Ident	Adelman	JACS	77 (1955)	1669

$C_6H_{10}O_3$	Acetic butyric anhydride	950-1250	Sol	Spec	Brown	JCS	-	(1951)	87
$C_6H_{10}O_3$	Diallyl ether dioxide	2-15 μ	L,Sol	Spec, Freq	Patterson	AC	26	(1954)	823
$C_6H_{10}O_3$	Ethyl acetoacetate	1-8 μ	L	Spec, Freq, Assign	Plyler	PR	35	(1930)	605
		2.8-6.2 μ	L	Spec, Assign	Bawn	JCS	-	(1932)	1189
		9000-11000	Sol	Spec, H bond	Badger	JCP	5	(1937)	369
		5.5-6.5 μ	L	Spec, H bond	Gordy	JCP	8	(1940)	516
		1050-1800	-	Spec	Barnes	IEC	15	(1943)	659
		2.2-3.6 μ	Sol	Spec	Hukins	JCS	-	(1949)	898
		3 μ	L,Sol	Spec	LeFevere	JCS	-	(1949)	2230
		2-15 μ	-	Freq, Struct	Rasmussen	JACS	71	(1949)	1073
		1200-2000	Sol	Freq	Bender	JACS	75	(1953)	6304
		2300-4200	L	Comparision	Kumler	JACS	75	(1953)	4346
		-	Sol	Freq	Bellamy	JCS	-	(1954)	4487
		-	Sol	Taut, Assign	Morsesyan	IANS	22	(1958)	1126
$C_6H_{10}O_3$	Ethyl α-(hydroxy-methyl)acrylate	-	-	Freq	Ferris	JOC	20	(1955)	780
$C_6H_{10}O_3$	Ethyl β-methoxy acrylate	2-15 μ	L	Assign, Spec	Walton	JACS	79	(1957)	3985
$C_6H_{10}O_3$	Propionic anhydride	5-6.4 μ	-	Reaction rate study	Barr	JCP	4	(1936)	90
		1750-1850	Sol	Freq, Assign, Vibrations	Dauben	JOC	24	(1959)	1595
$C_6H_{10}O_4$	Adipic acid	1-3 μ	S	H bond	Glatt	JCP	15	(1947)	880
		1.87-2.7 μ	S	H bond	Glatt	PR	73	(1948)	541
		700-3100	S	Spec	Mann	PRS	192	(1948)	489
		2800-3500	S	Spec	Ambrose	PRS	206	(1951)	192
		700-4000	L,S	Freq	Flett	JCS	-	(1951)	962
		500-1500	S	Spec, Assign	Hadzi	PRS	216	(1953)	247
		670-2000	L,S	Spec	Corish	JCS	-	(1955)	2431
		-	-	Freq, Struct	Bratoz	SA	8	(1956)	249
		-	S	H bond	Pimental	JCP	24	(1956)	639
		680-2500	-	Spec	Hadzi	NC	11	(1959)	715
		400-4000	S	Assign, Struct	Susi	SA	15	(1959)	1063
		650-2000	S	Struct, Spec	Davies	TFS	56	(1960)	185

$C_6H_{10}O_4$	2-Deoxy-3,6-anhydro-D-glucofuranose	700-1000	S	Freq, I	Barker	JCS	- (1954)	4550
$C_6H_{10}O_4$	1:4,3:6-Dianhydro-D-glucitol	3500-3650	Sol	H bond	Brimacombe	T	4 (1958)	351
$C_6H_{10}O_4$	1:4,3:6-Dianhydro-L-iditol	3500-3650	Sol	H bond	Brimacombe	T	4 (1958)	351
$C_6H_{10}O_4$	1:4,3:6-Dianhydro-D-mannitol	700-1000	S	Freq	Barker	JCS	- (1954)	4550
		3500-3650	Sol	H bond	Brimacombe	T	4 (1958)	351
$C_6H_{10}O_4$	1:4,3:6-Dianhydrosorbitol	700-1000	L	Freq, I	Barker	JCS	- (1954)	4550
$C_6H_{10}O_4$	Diethyl oxalate	1200-2000	Sol	Freq	Bender	JACS	75 (1953)	5986
		1500-5000	Sol	Freq	Briggs	AC	29 (1957)	904
		600-4000	L	Spec, Assign	LeFevre	AJC	11 (1958)	92
		1740-1800	L	Freq	Simon	JOC	23 (1958)	1078
		1700-1800	L,Sol	Iso	Abramovitch	CJC	37 (1959)	1146
$C_6H_{10}O_4$	Dimethyl succinate	500-1750	L	Assign	Thompson	JCS	- (1945)	640
		670-3500	L,S	Spec, Config	Corish	JCS	- (1958)	927
$C_6H_{10}O_4$	Ethyl acetoxyacetate	2-15 μ	Sol	Spec	Roberts	JACS	74 (1952)	3679
$C_6H_{10}O_4$	Ethyl succinate	2-15 μ	Sol	Spec	Abramovitch	CJC	36 (1958)	151
$C_6H_{10}O_4$	α-Methylglutaric acid	-	-	Freq	James	JCS	- (1958)	637
$C_6H_{10}O_4$	dl-α-Methylglutaric acid	-	-	Ident	Scheer	JACS	75 (1953)	4871
		-	Sol	Ident	Eisenbram	JACS	77 (1955)	3383
		-	-	Freq	James	JCS	- (1955)	637
		-	Sol	Ident	Scheer	JACS	77 (1955)	641
$C_6H_{10}O_5$	3:6-Anhydro-D-glucofuranose	700-1000	S	Freq, I	Barker	JCS	- (1954)	4550

$C_6H_{10}O_5$	Dicrotalic acid	-	-	Freq, Struct	Adams	JACS	75 (1953)	2377
$C_6H_{10}O_5$	Dihydrostreptosonic acid lactone	5-65 μ	-	Struct	Kuchl	JACS	71 (1949)	1445
$C_6H_{10}O_5$	Levoglucosan	8-15 μ	S	Spec	Kuhn	AC	22 (1950)	276
		2-15 μ	S	Spec, Ident	Resnik	AC	29 (1957)	1874
$C_6H_{10}O_5$	D-Methoxy-D-hydroxy-methyl-d-glycolic aldehyde	2-15 μ	S	Spec	Kuhn	AC	22 (1950)	276
$C_6H_{10}O_5$	L-Rhammono-γ-lactone	1700-1800	S	Freq	Barker	CIL	- (1958)	658
$C_6H_{10}O_6$	D-Galactono-γ-lactone	1700-1800	S	Freq	Barker	CIL	- (1958)	658
$C_6H_{10}O_6$	Glucono-δ-lactone	8-15 μ	S	Spec	Kuhn	AC	22 (1950)	276
		1700-1800	S	Freq	Barker	CIL	- (1958)	658
$C_6H_{10}O_6$	D-Glucono-γ-lactone	1700-1800	S	Freq	Barker	CIL	- (1958)	658
$C_6H_{10}O_6$	L-Glucono-γ-lactone	1700-1800	S	Freq	Barker	CIL	- (1958)	658
$C_6H_{10}O_6$	D-Gulono-γ-lactone	1700-1800	S	Freq	Barker	CIL	- (1958)	658
$C_6H_{10}O_6$	L-Gulono-γ-lactone	1700-1800	S	Freq	Barker	CIL	- (1958)	658
$C_6H_{10}O_6$	D-Mannono-δ-lactone	1700-1800	S	Freq	Barker	CIL	- (1958)	658
$C_6H_{10}O_6$	D-Mannono-γ-lactone	1700-1800	S	Freq	Barker	CIL	- (1958)	658
$C_6H_{10}O_6$	L-Mannono-γ-lactone	1700-1800	S	Freq	Barker	CIL	- (1958)	658
$C_6H_{10}O_7$	Galacturonic acid	5.5-6.5 μ	S	Spec	Ultee	AC	27 (1955)	557
$C_6H_{10}O_7$	D-Glucuronic acid	2-15 μ	S	Spec	Kuhn	AC	22 (1950)	276
$C_6H_{10}O_8$	Mucic acid	2-16 μ	S	Spec	Tipson	JOC	18 (1953)	952

$C_6H_{10}S$	Allyl sulfide	500-1500	L	Spec	Sheppard	TFS	46 (1950)	429
$C_6H_{10}S$	Cyclohexene episulfide	500-1500	L	Spec	Sheppard	TFS	46 (1950)	429
$C_6H_{11}D$	Cyclohexane-d_1	-	-	Assign	Langseth	JCP	8 (1940)	403
$C_6H_{11}D$	Hex-1-ene-1-d_1	450-4000	-	Group study	Hoffman	A	618 (1958)	276
$C_6H_{11}D$	Hex-1-ene-2-d_1	450-4000	-	Group study	Hoffman	A	618 (1958)	276
$C_6H_{11}D$	cis-Hex-3-ene-3-d_1	450-4000	-	Group study	Hoffman	A	618 (1958)	276
$C_6H_{11}DN_2O_4S_2$	Cystine-d_1	1-14 μ	S	Spec	Herget	PR	57 (1940)	1078
$C_6H_{11}DO_3$	4-Deuteroxymethyl-2,2 dimethyl-1,3-dioxolan	400-3100	G	Freq, Assign	Barker	JCS	- (1959)	802
$C_6H_{11}Br$	1-Bromocyclohexane	13.5-16 μ	L	Spec	Mortimer	JACS	69 (1947)	822
		2-16 μ	-	Spec, Freq	Roberts	JACS	73 (1951)	5030
		685-709	L	Equilibrium const study	Eliel	CIL	- (1959)	568
$C_6H_{11}Br$	Bromo-2-methyl-pentene	700-1700	L	Spec, Iso	Bateman	JCS	- (1950)	3045
$C_6H_{11}BrN_2O_2$	Bromural	2-16 μ	Sol	Spec, Freq	Umberger	AC	24 (1952)	1309
$C_6H_{11}BrOS$	Butylthio monobromo-acetate	2.5-16 μ	Sol	Freq, Struct	Nyquist	SA	15 (1959)	514
$C_6H_{11}BrO_2$	Ethyl-α-bromo-n-butyrate	1740	Sol	Freq	Hompton	AC	21 (1949)	914
$C_6H_{11}Br_3$	1,1,1-tris-(Bromo-methyl) propane	2-14 μ	G	Spec	Derfer	JACS	71 (1949)	175
$C_6H_{11}Cl$	1-Chlorocyclohexane	-	-	Freq	Marrison	JCS	- (1951)	1614
		2-16 μ	-	Spec, Freq	Roberts	JACS	73 (1951)	5030
		-	Sol	Freq	Brand	JACS	77 (1955)	2703
		430-3000	G,L,S	Freq	Kojima	BCSJ	31 (1958)	796

$C_6H_{11}Cl$	1-Chloro-2,3-dimethyl-2-butene	3.56-14.6 μ	L	Analysis	Hatch	JACS	75 (1953)	3712
$C_6H_{11}Cl$	1-Chloro-3,3-dimethyl-1-butene	7.5-14 μ	-	Spec, Ident	Schmerling	JACS	71 (1949)	2015
$C_6H_{11}Cl$	3-Chloro-2,3-dimethyl-1-butene	3.42-13.55 μ	L	Analysis	Hatch	JACS	75 (1953)	3712
$C_6H_{11}ClFNO$	N-Butyl-2-chloro-2-fluoroethanamide	2-15 μ	L,Sol	Freq, Assign	Letaw	JCP	21 (1953)	1621
$C_6H_{11}ClO$	t-Butyl chloromethyl ketone	-	S,L, Sol,G	Freq	Bellamy	JCS	- (1957)	4294
$C_6H_{11}ClO$	cis-2-Chlorocyclohexanol	8-15 μ	Sol	Spec	Stevens	JACS	74 (1952)	4876
$C_6H_{11}ClO$	trans-2-Chlorocyclohexanol	8-15 μ	Sol	Spec	Stevens	JACS	74 (1952)	4876
$C_6H_{11}ClOS$	Butylthio monochloroacetate	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA	15 (1959)	514
$C_6H_{11}ClO_2$	Methyl 4-chlorovalerate	-	-	Spec	Wiberg	JACS	74 (1952)	3957
$C_6H_{11}ClO_3$	n-Amyl chlorocarbonate	-	S	Freq	Ory	SA	16 (1960)	1488
$C_6H_{11}Cl_2NO$	N-Butyl-2,2-dichloroethanamide	2-15 μ	S	Freq, Assign	Letaw	JCP	21 (1953)	1621
$C_6H_{11}Cl_2OP$	Cyclohexyldichlorophosphine oxide	700-1350	Sol	Spec, Freq	Bellamy	JCS	- (1952)	475
		-	-	Freq	Bell	JACS	76 (1954)	5185
$C_6H_{11}Cl_2O_4P$	O,O-Diethyl-2,2-dichloro-1-oxoethyl phosphonate	-	-	Freq	Barthel	JACS	77 (1955)	2424

$C_6H_{11}Cl_2O_4P$	O,O-Diethyl-2,2-dichlorovinyl phosphonate	-	-	Freq	Barthel	JACS	77 (1955)	2424
$C_6H_{11}Cl_3NB$	Cyclopentylcyanide boron trichloride complex	-	Sol	Freq	Gerrard	JCS	- (1960)	2182
$C_6H_{11}Cl_3N_2$	N-n-Butyltrichloroacetamidine	1000-3500	L	Assign, Struct, H bond	Grivas	CJC	37 (1959)	795
$C_6H_{11}Cl_3N_2$	N,N-Diethyltrichloroacetamidine	1000-3500	L	Assign, Struct	Grivas	CJC	37 (1959)	795
$C_6H_{11}Cl_3N_2$	N,N-Diethyltrichloroacetamidine hydrochloride	1350-4000	S	Struct	Grivas	CJC	37 (1959)	1260
$C_6H_{11}F_2NO$	N-Butyl-2,2-difluoroethanamide	2-15 μ	L,Sol	Freq, Assign	Letaw	JCP	21 (1953)	1621
$C_6H_{11}F_3N_2.HCl$	N,N-Diethyltrifluoroacetamidine hydrochloride	1350-4000	S	Struct	Grivas	CJC	37 (1959)	1260
$C_6H_{11}N$	N-Allylideneisopropylamine	2.5-15 μ	L	Spec, Freq	Pollard	JACS	73 (1951)	2925
$C_6H_{11}N$	Cyclohexenimine	2-15 μ	L	Spec, Freq	Paris	JACS	74 (1952)	3007
$C_6H_{11}N$	Cyclopentylnitrile	-	Sol	Freq	Gerrard	JCS	- (1960)	2182
$C_6H_{11}N$	2,5-Dimethyl-Δ^1-pyrroline	2-11 μ 6.05 μ	Sol Sol	Spec, Struct Freq	Evans Meyers	JACS JOC	73 (1951) 24 (1959)	5230 1233
$C_6H_{11}N$	2,5-Dimethyl-Δ^3-pyrroline	2-11 μ	Sol	Spec, Struct	Evans	JACS	73 (1951)	5230

$C_6H_{11}N$	Hexanenitrile	-	Sol	I, Freq	Skinner	JCS	-	(1955)	487
		-	-	I	Thompson	TFS	52	(1956)	1451
		2200-2300	Sol	Freq, Struct	Jesson	SA	13	(1958)	217
$C_6H_{11}N$	Isocapronitrile	1-12μ	L	Spec	Bell	JACS	57	(1935)	1023
		-	-	Freq	Kitson	AC	24	(1952)	334
		-	-	I	Thompson	TFS	52	(1956)	1451
$C_6H_{11}N$	Isopentyl cyanide	2200-2300	Sol	Freq, Struct	Jesson	SA	13	(1958)	217
$C_6H_{11}N.HClO_4$	1,2-Dimethyl-Δ^2-pyrroline perchlorate	-	S	Freq	Leonard	JACS	76	(1954)	2781
$C_6H_{11}NO$	N-Acetylpyrrolidine	-	G	Solvent effect on freq	Caldow	PRS	254	(1960)	1
$C_6H_{11}NO$	4-Amino-3-methyl-3-pentene-2-one	650-3800	S	Table, Chart	Cromwell	JACS	71	(1949)	3337
$C_6H_{11}NO$	Cyclohexanone oxime	2700-3800	Sol	Spec, H bond	Buswell	JACS	60	(1938)	2444
		1650-1800	Sol	Ext coeffient	Cross	TFS	47	(1951)	354
		2.78μ	-	I	Goddu	AC	30	(1958)	1707
$C_6H_{11}NO$	ϵ-Caprolactam	-	L,S	Config.	Tsuboi	BCSJ	22	(1949)	255
$C_6H_{11}NO$	N,N-Dimethyl-amidopropene-1	-	Sol	Freq, Spec	Potts	SA	15	(1959)	679
$C_6H_{11}NO$	2,3-Dimethyl-2-butenamide	-	-	Analysis	Corey	JACS	75	(1953)	1163
$C_6H_{11}NO$	2,3-Dimethyl-3-butenamide	-	-	Analysis	Corey	JACS	75	(1953)	1163
$C_6H_{11}NO$	N-Ethylpyrrolidone	2-9μ	L	Spec, Freq	Oster	JACS	76	(1954)	1393
$C_6H_{11}NO$	N-Formylpiperidine	-	Sol	Freq	Emmons	JOC	19	(1954)	1472
$C_6H_{11}NO$	ξ-Isopropoxy-	-	-	Freq	Kitson	AC	24	(1952)	334

$C_6H_{11}NO$	4-Methylamino-3-pentene-2-one	650-1000	L,S	Spec, Assign	Holtzclaw	JACS	80	(1958)	1100
$C_6H_{11}NO$	6-Methyl-2-piperidone	-	-	Ident	Jones	JCS	-	(1952)	3261
$C_6H_{11}NO$	8-Oxa-3-azabicyclo [3.2.1.] octane	-	-	Ident	Cope	JACS	77	(1955)	393
$C_6H_{11}NO$	2-Oxohexamethyleneimine	1600-1800	Sol	Freq	Hall	JACS	80	(1958)	6428
		-	Sol	H bond	Lord	ZE	64	(1960)	672
$C_6H_{11}NO_2$	N-Acetylmorpholine	-	-	Ident	Brace	JACS	75	(1953)	357
$C_6H_{11}NO_2$	Cyclohexyl nitrite	2-25 μ	G	Iso	Tarte	JCP	20	(1952)	1570
$C_6H_{11}NO_2$	γ-Methylallylglycine	2-15 μ	S	Assign	Moreno	SA	16	(1960)	1386
$C_6H_{11}NO_2$	Nipecotic acid	2-16 μ	S	Spec	Zacharius	JACS	76	(1954)	2908
$C_6H_{11}NO_2$	Nitrocyclohexane	-	Sol	Analysis	Brand	JACS	77	(1955)	2703
$C_6H_{11}NO_2$	l-Pipecolic acid	2-16 μ	S	Spec	Zacharius	JACS	76	(1954)	2908
$C_6H_{11}NO_2$	γ-Pipecolic acid	2-16 μ	S	Spec	Zacharius	JACS	76	(1954)	2908
$C_6H_{11}NO_2 \cdot HCl$	γ-Methylallylglycine hydrochloride	2-15 μ	Sol	Assign	Moreno	SA	16	(1960)	1368
$C_6H_{11}NO_2 \cdot HCl$	(DL)-Pipecolic acid hydrochloride	-	-	Ident	Zackarius	JACS	74	(1952)	2949
$C_6H_{11}NO_2 \cdot HCl$	l-Pipecolic acid hydrochloride	-	-	Ident	Zackarius	JACS	74	(1952)	2949
$C_6H_{11}NO_3$	N-Acetylglycine ethyl ester	2.7-3.6 μ	S,Sol	H band	Buswell	JACS	62	(1940)	2759
		2.9-3.6 μ	S,Sol	Spec, Config	Mizushima	JACS	75	(1953)	1863
$C_6H_{11}NO_3$	Cyclohexyl nitrate	-	Sol	Band study	Brand	JACS	77	(1955)	2703

$C_6H_{11}NO_4$	Ethyl α-nitrobutyrate	-	-	Freq	Emmons	JACS	77 (1955)	4391
$C_6H_{11}NO_5$	n-Butyl glycolate nitrate	-	L	Freq	Kumler	JACS	75 (1953)	4346
$C_6H_{11}NO_5$	sec-Butyl glycolate nitrate	700-4300	L,Sol	Spec, Freq	Kumler	JACS	75 (1953)	4346
$C_6H_{11}NO_5$	Ethyl β-hydroxy-γ-nitrobutyrate	-	-	Freq	Leonard	JOC	17 (1952)	1262
$C_6H_{11}NO_5$	N-Isopropylglycine carbonic anhydride	3 μ	L,Sol	Association in solution	Waley	PRS	199 (1949)	499
$C_6H_{11}NS$	β-(2-Hydroxyethyl) mercapto-α-methyl-propionitrile	-	-	Ident	Ross	JACS	73 (1951)	540
$C_6H_{11}NS$	2-Isopropyl-2-thiazoline	-	-	Spec, Freq	Roggers	CPR	249 (1959)	2529
$C_6H_{11}NS$	2,5,5-Trimethyl-3-thiopyrroline	6.09 μ	Sol	Freq	Meyers	JOC	24 (1959)	1233
$C_6H_{11}N_3O$	4-Azido-4-methyl-pentanone	2-16 μ	Sol	Spec, Freq	Boyer	JACS	73 (1951)	5248
$C_6H_{11}N_3O$	Methyl isopropenyl ketone semicarbazone	700-3500	S	Ident, Assign	Davison	JCS	- (1955)	3389
$C_6H_{11}N_3O_4$	Triglycine	650-4000	S	Spec	Blout	JACS	74 (1952)	1946
$C_6H_{11}N_3O_6$	5,5-Dinitro-2-ethoxy-3-aza-4-oxa-2-hexene	-	Sol	Freq, I	Belew	JACS	77 (1955)	1110
$C_6H_{11}N_5O$	2-Isopropoxy-4,6-diamino-1,3,5-triazine	2-16 μ	S	Spec, Struct	Padgett	JACS	80 (1958)	803

$C_6H_{11}OS$	Butylthio acetate	2.5-16μ	S	Freq, Struct	Nyquist	SA	15 (1959)	514
$C_6H_{11}O_6$	4D-Hydroxymethyl-2L-methoxy-diglycolaldehyde hemiacetal hydrate	-	-	Freq, Struct	Hurd	JOC	18 (1953)	186
C_6H_{12}	Cyclohexane	0.59-2.8μ	L	IR correlation	Ellis	PR	32 (1928)	906
		-	-	CH-overtones	Ellis	TFS	25 (1929)	888
		-	-	Heats of CH linkage	Ellis	PR	33 (1929)	27
		3-4μ	L	Spec	Barnes	PR	36 (1930)	296
		0.57-3.5μ	-	C-H overtones	Ellis	PR	35 (1930)	437
		1.0-1.8μ	L	Spec	Bruun	JRNB	7 (1931)	607
		1.1-1.8μ	L	Spec	Bruun	JRNB	9 (1932)	53
		1-16μ	G	Spec	Kattering	P	4 (1933)	39
		1.1-1.8μ	Sol	Spec	Liddel	JRNB	11 (1933)	599
		3.1-3.6μ	Sol	Spec	Fox	PRS	167 (1938)	257
		-	-	Config	Langseth	JCP	8 (1940)	415
		-	-	Hindered rotation	Langseth	JCP	8 (1940)	403
		3μ	-	Spec	Gore	IEC	13 (1941)	768
		-	-	Struct, Thermo	Aston	JACS	65 (1943)	1135
		1200-1800	-	Spec	Barnes	IEC	15 (1943)	659
		2-14.5μ	G	Spec, Assign	Rasmussen	JCP	11 (1943)	249
		3-4μ	L	Prism dispersion	Wright	RSI	15 (1944)	22
		-	-	Freq	Kellner	TFS	41 (1945)	217
		3-20μ	L	Spec	Torkington	TFS	41 (1945)	184
		-	-	Struct, Thermo	Beckett	JACS	69 (1947)	2488
		3-15μ	S,L,G	Spec, Struct	Carpenter	JCP	15 (1947)	1947
		16-24μ	L,G	Spec	Plyler	JOSA	37 (1947)	746
		2-15μ	L	Spec	Plyler	JRNB	38 (1947)	211
		500-1500	G,L	FC	Ramsay	PRS	190 (1947)	245
		-	-	FC	Ramsay	PRS	190 (1947)	562
		-	-	Thermo	Beckett	JACS	70 (1948)	4227
		-	-	Assign	Ramsay	TFS	44 (1948)	289
		-	-	Analysis	Saier	AC	20 (1948)	812
		9-14μ	L	Spec	Fred	AC	21 (1949)	900
		8000-9000	Sol	Spec	Hibbard	AC	21 (1949)	486
		-	L	Analysis	Ipatieff	JACS	71 (1949)	2685
		-	G	Analysis	Bell	AC	22 (1950)	1005

		6.5-13μ	L	Spec, Assign	Burket	JACS	72	(1950)	4397
		7.92-11.6μ	L	Analysis	Ipatieff	JACS	73	(1951)	553
		3.4μ	Sol	Analysis	Simard	AC	23	(1951)	1384
		-	-	Group study	Hastings	AC	24	(1952)	612
		1350-1500	Sol	Spec	Jones	JACS	74	(1952)	5648
		-	Sol	Analysis	Long	AC	24	(1952)	1227
		15-25μ	L	Transparent solvent	Marrison	JSI	29	(1952)	233
		-	-	IR and chemical binding	Mecke	JCP	20	(1952)	1935
		2-15μ	L	Spec	Pristera	APS	6	(1952)	29
		2.8-3.8μ	Sol	Analysis	Robinson	AC	24	(1952)	619
		2-16μ	L	Spec	Anderson	JOSA	43	(1953)	221
		-	-	Analysis	Childers	AC	25	(1953)	528
		3.4-14.7μ	Sol	Struct	Francis	AC	25	(1953)	1466
		-	Sol	Analysis	Hammer	AC	25	(1953)	668
		700-3300	-	Spec	Dixon	JPC	58	(1954)	430
		640-1400	Sol	No changes with I_2 addition	Haller	JCP	22	(1954)	720
		-	-	Freq, I	O'Connor	AC	26	(1954)	1726
		-	Sol	Analysis	Brand	JACS	77	(1955)	2703
		2-15μ	L	Spec	Pristera	AC	27	(1955)	217
		0.9-3μ	Sol	Spec	Holman	AC	28	(1956)	1533
		3-4μ	L,Sol	Freq	Tallent	AC	28	(1956)	953
		400-4000	Sol	Spec, Config	Cummins	JCS	-	(1957)	3847
		2800-3100	Sol	Reference compound	Henbest	JCS	-	(1957)	1462
		0.5-14μ	L	Refractive index	Jaffe	JOSA	47	(1957)	782
		15-35μ	S	Spec, Struct	Bentley	SA	15	(1959)	165
		3400-3800	Sol	H bond	West	JACS	81	(1959)	1614
C_6H_{12}	2-Cyclopropyl-propane	15-35μ	S	Spec, Struct	Bentley	SA	15	(1959)	165
C_6H_{12}	2,3-Dimethyl-1-butene	-	L	Quant anal	Fry	JAP	17	(1946)	150
		-	-	Analysis	Anderson	AC	20	(1948)	998
		15-35μ	S	Spec, Struct	Bentley	SA	15	(1959)	165
C_6H_{12}	2,3-Dimethyl-2-butene	-	-	Thermo	Kassel	JCP	4	(1936)	435
		-	L	Quant anal	Fry	JAP	17	(1946)	150
		-	-	Freq	Elsabban	JCP	20	(1952)	1810
		2-38μ	L	Thermo, Spec, Assign	Scott	JACS	77	(1955)	4993
		-	-	Freq	Bellamy	JCS	-	(1958)	2463

C_6H_{12}	3,3-Dimethyl-1-butene	-	-	Analysis	Hampton	AC	21	(1949)	923
		-	-	Assign	Sheppard	JCP	17	(1949)	455
		-	-	Freq	Bellamy	JCS	-	(1958)	2463
		-	Sol	Freq, Spec	Potts	SA	15	(1959)	679
C_6H_{12}	2-Ethyl-1-butene	-	-	Analysis	Anderson	AC	20	(1948)	998
C_6H_{12}	Ethylcyclobutane	2-15 μ	G	Anal	Derfer	JACS	71	(1949)	2482
		-	-	Ident	Pines	JACS	75	(1949)	2315
C_6H_{12}	1-Hexene	1-30 μ	G	Spec	Kattering	P	4	(1933)	39
		-	-	Optical density vs conc	Johnston	AC	20	(1948)	805
		-	G	Analysis	Real	JCS	-	(1949)	2222
		-	-	Ident	Greenfield	JACS	76	(1954)	1258
		-	-	Freq	Bellamy	JCS	-	(1958)	2463
		6.08-10.08 μ	Sol	Absorbances	Curry	AC	31	(1959)	960
		3400-3800	Sol	H bond	West	JACS	81	(1959)	1614
		-	-	Assign	Harrah	JCP	33	(1960)	298
C_6H_{12}	2-Hexene	3400-3800	Sol	H bond	West	JACS	81	(1959)	1614
C_6H_{12}	cis-2-Hexene	15-35 μ	S	Spec, Struct	Bentley	SA	15	(1959)	165
C_6H_{12}	trans-2-Hexene	-	-	Optical density vs conc	Johnston	AC	20	(1948)	805
		-	-	Analysis	Hampton	AC	21	(1949)	923
		15-35 μ	S	Spec, Struct	Bentley	SA	15	(1959)	165
C_6H_{12}	trans-3-Hexene	-	-	Analysis	Hampton	AC	21	(1949)	923
		-	-	Thermo	Kilpatrick	JCP	17	(1949)	1064
C_6H_{12}	Methylcyclopentane	1.0-1.8 μ	L	Spec	Brunn	JRNB	7	(1931)	799
		1.1-1.8 μ	Sol	Spec	Liddel	JRNB	11	(1933)	599
		1150-1800	-	Spec	Barnes	IEC	15	(1943)	659
		3-20 μ	L	Spec	Torkington	TFS	41	(1945)	184
		2-15 μ	L	Spec	Plyler	JOSA	37	(1947)	746
		15-24 μ	L	Spec	Plyler	JRNB	38	(1947)	211
		8000-9000	Sol	Analysis	Hibbard	AC	21	(1949)	486
		-	-	Analysis	Ipatieff	JACS	71	(1949)	2685

		2-4.2 μ	Sol	Spec, Assign	Plyler	JRNB	43	(1949)	37
		-	G	Analysis	Bell	AC	22	(1950)	1005
		-	G	Analysis	Coggeshal	AC	22	(1950)	381
		-	-	Analysis	Ipatieff	JACS	73	(1951)	553
		-	-	Ident	Clark	JACS	74	(1952)	1030
		3.30-3.55 μ	-	Analysis	Hastings	AC	24	(1952)	612
		-	-	Analysis	Jones	JCS	-	(1952)	3261
		-	Sol	Freq	Jones	JACS	74	(1952)	5648
		-	Sol	Analysis	Long	AC	24	(1952)	1227
		15-25 μ	L	Transparent solvent	Marrison	JSI	29	(1952)	233
		3.4-14.7 μ	Sol	Struct	Francis	AC	25	(1953)	1466
		15-35 μ	S	Spec, Struct	Bentley	SA	15	(1959)	165
C_6H_{12}	1-Methyl-1-ethyl-cyclopropane	2-15 μ	G	Anal	Derfer	JACS	71	(1949)	2482
C_6H_{12}	trans-1-Methyl-2-ethylcyclopropane	2-15 μ	G	Anal	Derfer	JACS	71	(1949)	2482
C_6H_{12}	2-Methyl-1-pentene	3-14 μ	G	Spec	Bartson	JACS	68	(1946)	2513
		-	-	Optical density vs conc	Johnston	AC	20	(1948)	805
		2-15 μ	Sol	Absorption	Binder	AC	29	(1957)	503
		3400-3800	Sol	H bond	West	JACS	81	(1959)	1614
C_6H_{12}	2-Methyl-2-pentene	700-1500	-	Spec, Assign	Sheppard	PRS	196	(1949)	195
		-	Sol	Ext coefficient	Barnard	JCS	-	(1950)	915
		-	Sol	Analysis	Saier	AC	26	(1954)	1258
C_6H_{12}	3-Methyl-1-pentene	-	-	Analysis	Hampton	AC	21	(1949)	923
		2-15 μ	Sol	Absorption	Binder	AC	29	(1957)	503
C_6H_{12}	3-Methyl-cis-2-pentene	2-22 μ	-	Spec	Saunders	JAP	20	(1949)	953
		700-1500	-	Spec, Assign	Sheppard	PRS	196	(1949)	199
		-	Sol	Analysis	Saier	AC	26	(1954)	1258
C_6H_{12}	3-Methyl-trans-2-pentene	2-22 μ	-	Spec	Saunders	JAP	20	(1949)	953
		700-1500	-	Spec	Sheppard	PRS	196	(1949)	195
		-	Sol	Analysis	Saier	AC	26	(1954)	1258

C_6H_{12}	4-Methyl-1-pentene	-	-	Analysis	Hampton	AC	21	(1949)	923
C_6H_{12}	4-Methyl-cis-2-pentene	-	-	Struct	Hall	AC	21	(1949)	422
		-	-	Analysis	Hampton	AC	21	(1949)	923
		1.0-2.8 μ	L,Sol	Spec, Iso	Goddu	AC	29	(1957)	1790
C_6H_{12}	4-Methyl-trans-2-pentene	-	-	Struct	Hall	AC	21	(1949)	422
		-	-	Analysis	Hampton	AC	21	(1949)	923
		1.0-2.8 μ	L,Sol	Spec	Goddu	AC	29	(1957)	1790
		-	-	Freq	Bellamy	JCS	-	(1958)	2463
C_6H_{12}	Isopropylcyclopropane	2-15 μ	G	Anal	Derfer	JACS	71	(1949)	2482
		-	-	Freq	Slabey	JACS	71	(1949)	1518
		-	-	Freq	Pines	JACS	75	(1953)	2311
		-	L,Sol	Freq	Slabey	JACS	76	(1954)	3604
C_6H_{12}	n-Propylcyclopropane	-	L	Freq	Pines	JACS	75	(1953)	2311
		-	-	Ident	Gragson	JOC	20	(1955)	275
C_6H_{12}	1,1,2-Trimethylcyclopropane	3-14 μ	G	Spec	Bartleson	JACS	68	(1946)	2513
		2-15 μ	G	Anal	Derfer	JACS	71	(1949)	2482
C_6H_{12}	1,2,3-Trimethylcyclopropane	2-15 μ	L	Solvent effect	Derfer	JACS	71	(1949)	2482
$C_6H_{12}DNO$	N^{14}-Butylacetamide-N-d_1	700-3400	L,Sol	Spec, Freq, Assign	Beer	JCP	29	(1958)	1097
$C_6H_{12}DNO$	N^{15}-Butylacetamide-N-d_1	-	-	Freq	Vaughan	JOC	20	(1955)	819
		700-3400	L,Sol	Spec, Freq, Assign	Beer	JCP	29	(1958)	1097
$C_6H_{12}Br_2$	2,3-Dibromo-2,3-dimethylbutane	400-5000	Sol	IR	Cleveland	JCP	18	(1950)	1320
		-	S,L,G, Sol	Config	Mizushima	JPC	56	(1952)	324
$C_6H_{12}ClNO$	N-Butyl-2-chloroethanamide	4500-5300	L	Spec	Abbott	PRS	219	(1953)	17
		2-15 μ	L,Sol	Freq, Assign	Letaw	JCP	21	(1953)	1621

$C_6H_{12}ClNO_2$	Ethyl N-α-chloro-propionylcarbamate	650-4000	Sol	Spec	Pianka	JCS	-	(1960)	983
$C_6H_{12}Cl_2$	1,3-Dichloro-2,3-dimethylbutane	3.5-13.68μ	L	Ident	Hatch	JACS	75	(1953)	3712
$C_6H_{12}Cl_2$	2,3-Dichloro-2,3-dimethylbutane	-	G,Sol, L,S	Config	Mizushima	JPC	56	(1952)	324
$C_6H_{12}Cl_3O_4P$	Tri-2-chloroethyl phosphate	670-1480	L,Sol	Spec	Bellamy	JCS	-	(1952)	475
		-	-	P = O group freq	Bell	JACS	76	(1954)	5185
$C_6H_{12}Cl_3O_4P$	O,O-Diethyl-2,2,2-trichloro-1-hydroxy-ethylphosphonate	-	-	Freq	Barthel	JACS	77	(1955)	2424
$C_6H_{12}NO_3PS$	S-Cyanomethyl-O,O-diethyl thio-phosphate	-	-	Struct	Hoegberg	JACS	73	(1951)	557
$C_6H_{12}N_2$	6-Aminocapronitrile	-	-	Freq	Kitson	AC	24	(1952)	334
$C_6H_{12}N_2$	3,6-Dimethyltetra-hydropridazine	2-15μ	-	Ident	Overberger	JACS	77	(1955)	4100
$C_6H_{12}N_2OS_3$	Dimethylcarbamyl dimethylthiocarbamyl disulfide	2-15μ	S	Spec, Freq	Gregg	JACS	74	(1952)	3691
$C_6H_{12}N_2O_2$	Acetylalanine-N-methylamide	2.8-3.1μ	Sol	Spec, H bond, Config	Mizushima	JACS	74	(1952)	4639
		2.7-3.5μ	S	Spec, Config	Mizushima	JACS	75	(1953)	1863
$C_6H_{12}N_2O_2$	Isopropyl methyl-glyoxime	400-3500	-	Spec, Struct	Borello	GCI	87	(1957)	615
$C_6H_{12}N_2O_2S_2$	Dimethylcarbamyl disulfide	2-25μ	S	Spec	Gregg	JACS	75	(1952)	3691

$C_6H_{12}N_2O_3$	Glycylglycine ethyl ester	2700-3800	Sol	Spec, H bond	Buswell	JACS	61	(1939)	3252
$C_6H_{12}N_2O_4$	1,1-Dinitrohexane	-	-	Spec	Novikov	IANS	-	(1959)	1855
$C_6H_{12}N_2O_4S_2$	Cystine	1-14 μ	S	Spec	Herget	PR	51	(1940)	1078
		-	-	Freq	Cymerman	JCS	-	(1951)	1332
		600-4000	S	Ident	Epp	AC	29	(1957)	1283
$C_6H_{12}N_2O_5$	D-Serine anhydride	-	-	Ident	Hidy	JACS	77	(1955)	2345
$C_6H_{12}N_2O_5$	DL-Serine anhydride	-	-	Ident	Hidy	JACS	77	(1955)	2345
$C_6H_{12}N_2O_8$	Triethylene glycol dinitrate	2-15 μ	Sol	Spec, Freq	Pristera	AC	25	(1953)	844
$C_6H_{12}N_2S_4$	Dimethylthiocarbamyl disulfide	2-25 μ	S	Spec	Gregg	JACS	74	(1952)	3691
$C_6H_{12}N_4O_3$	Reseonine	800-3500	S	Spec	Goto	BCSJ	30	(1957)	723
		750-4000	-	Spec, Struct	Nakanishi	BCSJ	30	(1957)	725
$C_6H_{12}N_6$	N,N',N"-Trimethyl-melamine	2-16 μ	S	Spec, Struct	Padgett	JACS	80	(1958)	803
$C_6H_{12}O$	Allyldimethyl-carbinol	-	-	Spec, Temp effect	Michinori	BCSJ	33	(1960)	1600
$C_6H_{12}O$	3-Butenyl ethyl ether	-	-	Spec	Bergstrom	JACS	74	(1952)	145
$C_6H_{12}O$	t-Butyl vinyl ether	-	Sol	Freq, Spec	Potts	SA	15	(1959)	679
$C_6H_{12}O$	n-Butyl vinyl ether	-	Sol	Freq	Davison	JCS	-	(1953)	2607
		650-3150	L	Freq	Meakins	JCS	-	(1953)	4170
		600-4000	G,Sol	Spec, Freq	Mikawa	BCSJ	29	(1956)	110
		1.615-2.093 μ	Sol	Ext coefficient	Goddu	AC	29	(1957)	1790

$C_6H_{12}O$	Crotyl ethyl ether	2-16 μ	-	Spec, Ident	Bergstrom	JACS	74 (1952)	145
$C_6H_{12}O$	Cyclohexanol	1050-1800	-	Spec	Barnes	IEC	15 (1943)	659
		-	-	Freq	Marrison	JCS	- (1951)	1614
		15-25 μ	L	Opaque	Marrison	JSI	29 (1952)	233
		-	Sol	Analysis	Childers	AC	25 (1953)	1311
		665-5000	L	Freq	Zeiss	JACS	75 (1953)	897
		3.8-12.7 μ	L	Freq, I	Smith	JACS	76 (1954)	4564
		400-4000	Sol	Spec	Cummins	JCS	- (1957)	3847
		3 μ	Sol	Freq, H bond	Flett	SA	10 (1958)	21
		9-11 μ	Sol	Freq, I	Pickering	JACS	80 (1958)	4931
		3570-3700	Sol	Freq, I	Flynn	AJC	12 (1959)	575
		2.5-3.5 μ	-	OH group	Kabasakalian	AC	31 (1959)	375
		2.75-2.9 μ	Sol	Freq, H bond	Moriconi	JACS	81 (1959)	6472
		700-4000	Sol, L	Freq, Ext coefficient	DeMaine	CJC	38 (1960)	1921
$C_6H_{12}O$	Cyclopentylcarbinol	3.8-12.70 μ	L	Freq, I	Smith	JACS	76 (1954)	4564
$C_6H_{12}O$	Cyclopropylmethyl ethyl ether	2-16 μ	-	Spec, Ident	Bergstrom	JACS	74 (1952)	145
$C_6H_{12}O$	Dimethylcyclopropyl-carbinol	-	L,Sol	Freq	Slabey	JACS	76 (1954)	3604
$C_6H_{12}O$	2,2-Dimethyltetra-hydrofuran	2569-2689	Sol	H bond, Freq	Searles	JACS	73 (1951)	3704
$C_6H_{12}O$	2,5-Dimethyltetra-hydrofuran	2-15 μ	L,Sol	Spec, Freq assign	Barrow	JACS	75 (1953)	1175
$C_6H_{12}O$	2-Ethylbut-3-en-1-ol	2.5-13.5 μ	-	Spec, Freq	Freedman	JOC	16 (1951)	1701
		-	L,S	Ident, Freq	Harper	JCS	- (1955)	1512
$C_6H_{12}O$	2-Ethylbutyraldehyde	-	Sol	Freq	Pinchas	AC	27 (1955)	2
$C_6H_{12}O$	3-Hexanone	1600-1800	Sol	Freq	Fuson	JACS	76 (1954)	2526

$C_6H_{12}O$	cis-3-Hexenol-1	5-15 μ	L	Spec	Crombie	JCS	-	(1950)	873
		6-15 μ	L	Spec	Crombie	JCS	-	(1950)	1714
		-	-	Perfume study, Spec	Sondheimer	JCS	-	(1950)	877
		-	S,L	Ident	Harper	JCS	-	(1955)	1512
$C_6H_{12}O$	trans-3-Hexenol-1	5-15 μ	L	Spec	Crombie	JCS	-	(1950)	873
		6-15 μ	L	Spec	Crombie	JCS	-	(1950)	1714
		5-15 μ	L	Spec, Perfume study	Sondheimer	JCS	-	(1950)	877
		-	L,S	Freq	Harper	JCS	-	(1955)	1512
$C_6H_{12}O$	cis-n-4-Hexenol-1	8-12 μ	L	Spec, Struct	Crombie	JCS	-	(1950)	1707
$C_6H_{12}O$	trans-n-4-Hexenol-1	8-12 μ	L	Spec	Crombie	JCS	-	(1950)	1707
$C_6H_{12}O$	Isobutyl vinyl ether	-	Sol	Freq	Davison	JCS	-	(1953)	2607
		1.615 μ	Sol	Ext coefficient	Goddu	AC	29	(1957)	1790
$C_6H_{12}O$	Methyl butyl ketone	2800-3000	Sol	Freq, Spec	Pozefsky	AC	23	(1951)	1611
$C_6H_{12}O$	Methyl isobutyl ketone	1600-1800	Sol	Freq	Fuson	JACS	76	(1954)	2526
		-	S,L,G, Sol	Freq	Bellamy	JCS	-	(1957)	4294
		-	-	Freq	Bottreau	JPR	19	(1958)	552
$C_6H_{12}O$	Methyl t-butyl ketone	-	-	Ext coefficient	Cross	TFS	47	(1951)	354
		-	-	Ident	Baker	AC	25	(1953)	1457
		-	Sol	Freq	Bartlett	JACS	77	(1955)	2806
		-	S,L,G	Freq	Bellamy	JCS	-	(1957)	4294
		-	Sol	Freq	Rao	JPC	63	(1959)	1311
$C_6H_{12}O$	1-Methylcyclopentanol	3.8-12.7 μ	L	Freq, I	Smith	JACS	76	(1954)	4564
$C_6H_{12}O$	Methyl cyclopropyl-carbinylmethyl ether	-	-	Ident	Pearson	JACS	75	(1953)	1065
$C_6H_{12}O$	1-Methyl-3-ethyl-trimethylene oxide	-	L	Freq	Gaylord	JACS	76	(1954)	59

$C_6H_{12}O$	trans-3-Penten-1-yl methyl ether	-	-	Freq, Ident	Pearson	JACS	75 (1953)	1065
$C_6H_{12}O$	Tetramethylethylene oxide	1250	-	Struct	Field	JCP	18 (1950)	1298
$C_6H_{12}O$	1,2,2-Trimethyl trimethylene oxide	2.5-15 μ	-	Spec	Rust	JACS	76 (1954)	1055
$C_6H_{12}OS$	Acetone trimethylene-hemithioketal	-	Sol	Freq	Djerassi	JACS	75 (1953)	3704
$C_6H_{12}OS$	n-Butylthio acetate	2-16 μ	L	Spec, Freq	Noda	JACS	75 (1953)	913
$C_6H_{12}OS$	Methyl ethyl ketone ethylenehemithio-ketal	-	Sol	Freq	Djerassi	JACS	75 (1953)	3704
$C_6H_{12}O_2$	n-Amyl formate	1-2.5 μ	L	Spec	Smith	JACS	48 (1926)	1512
$C_6H_{12}O_2$	n-Butyl acetate	0.7-2.5 μ	L	C = O study	Ellis	JACS	51 (1929)	1384
		0.8-2.5 μ	L	Spec	Sappanfield	PR	33 (1929)	37
		500-1750	L	Assign	Thompson	JCS	- (1945)	640
		1768	G	Freq	Hartwell	JCS	- (1948)	1436
		720-750	L	Freq	Wibberly	AC	22 (1950)	841
		2800-3000	Sol	Freq	Pozefsky	AC	23 (1951)	1611
		-	-	Freq	Bell	AC	25 (1953)	1720
		-	-	Freq	Karpovich	JCP	22 (1954)	1767
		1200	Sol	Freq, I	Russell	JCS	- (1955)	479
		-	Sol	Freq, I	Thompson	SA	13 (1958)	236
		800-1500	Sol	Assign	Katritzky	SA	16 (1960)	954
		-	-	Assign	Katritzky	SA	16 (1960)	964
$C_6H_{12}O_2$	sec-Butyl acetate	500-1750	L	Assign	Thompson	JCS	- (1945)	640
		1764	G	Freq	Hartwell	JCS	- (1948)	1436
		-	-	Freq	Karpovich	JCP	22 (1954)	1767
		1200	Sol	I	Russell	JCS	- (1955)	479
		800-1500	Sol	Assign	Katritzky	SA	16 (1960)	954
		-	-	Assign	Katritzky	SA	16 (1960)	964

$C_6H_{12}O_2$	t-Butyl acetate	665-5000	L	Freq	Ory	AC	32	(1960)	509
$C_6H_{12}O_2$	Cyclohexane-1,2-diol	-	S	Ident	Jaeger	JCS	-	(1955)	160
$C_6H_{12}O_2$	cis-Cyclohexane-1,2-diol	3 μ	Sol	Spec, Freq	Kuhn	JACS	74	(1952)	2492
		-	Sol	Freq	Kuhn	JACS	76	(1954)	4323
		-	Sol	Freq	Kwart	JACS	76	(1954)	5400
		-	Sol	Freq	Eliel	JACS	77	(1955)	3600
		-	-	Ident	Merrow	JACS	77	(1955)	756
		3500-3650	Sol	H bond	Brimacombe	TE	4	(1958)	351
$C_6H_{12}O_2$	trans-Cyclohexane-1,2-diol	3 μ	S,Sol	Spec, Freq	Kuhn	JACS	74	(1952)	2492
		-	-	Ident	Eastman	JACS	75	(1953)	1493
		-	Sol	Freq	Kuhn	JACS	76	(1954)	4323
		-	Sol	Freq	Kwart	JACS	76	(1954)	5400
		-	Sol	Freq	Eliel	JACS	77	(1955)	3600
		3500-3650	Sol	H bond	Brimacombe	TE	4	(1958)	351
$C_6H_{12}O_2$	cis-Cyclohexane-1,3-diol	3 μ	Sol	Freq, Spec	Kuhn	JACS	74	(1952)	2492
$C_6H_{12}O_2$	trans-Cyclohexane-1,3-diol	3 μ	Sol	Freq	Kuhn	JACS	74	(1952)	2492
$C_6H_{12}O_2$	cis-Cyclohexane-1,4-diol	3 μ	Sol	Freq	Kuhn	JACS	74	(1952)	2492
$C_6H_{12}O_2$	trans-Cyclohexane-1,4-diol	3 μ	Sol	Freq	Kuhn	JACS	74	(1952)	2492
$C_6H_{12}O_2$	Diacetone alcohol	9000-1100	Sol	Spec, H bond	Badger	JCP	5	(1937)	839
		-	-	Freq, Struct	Rasmussen	JACS	71	(1949)	1068
		15-25 μ	L	Opaque	Marrison	JSI	29	(1952)	233
		3 μ	Sol	Freq, H bond	Flett	SA	10	(1958)	21
$C_6H_{12}O_2$	1,1-Diethoxyethylene	-	Sol	Freq, Spec	Potts	SA	15	(1959)	679
$C_6H_{12}O_2$	Diethylacetic acid	1300-2000	Sol	Spec	Gillette	JACS	58	(1936)	1143
		0.9-3 μ	Sol	Spec	Holman	AC	28	(1956)	1533

$C_6H_{12}O_2$	2,2-Dimethylbutanoic acid	-	-	Ident	Kwart	JACS	76	(1954)	5403
$C_6H_{12}O_2$	1,2-Epoxy-3-isopropoxy propane	1-3.1 μ	Sol	Terminal expoxides	Goddu	AC	30	(1958)	2013
$C_6H_{12}O_2$	trans-3,4-Epoxyhexan-1-ol	2800-3100	Sol	Freq	Henbest	JCS	-	(1957)	1459
$C_6H_{12}O_2$	Ethyl butyrate	0.8-2.5 μ	L	Spec	Sappenfield	PR	33	(1929)	37
		500-1750	L	Assign	Thompson	JCS	-	(1945)	640
		1760	G	Freq	Hartwell	JVS	-	(1948)	1436
		1740	Sol	Freq	Hampton	AC	21	(1949)	914
		2-16 μ	L	Spec, Freq	Rappaport	JACS	75	(1953)	2695
		-	L	Freq	Filler	JACS	76	(1954)	1376
		-	Sol	I	Gutjahr	SA	16	(1960)	1209
		800-1500	Sol	Assign	Katritzky	SA	16	(1960)	954
$C_6H_{12}O_2$	Ethyl isobutyrate	20.7-152 μ	S	Transmission	Seifert	RSI	11	(1940)	365
		500-1750	L	Assign	Thompson	JCS	-	(1945)	640
		1759	G	Freq	Hartwell	JCS	-	(1948)	1436
		-	Sol	I	Gutjahr	SA	16	(1960)	1209
$C_6H_{12}O$	Ethyl n-butyrate	1-2.5 μ	L	Spec	Smith	JACS	48	(1926)	1512
		2800-3000	Sol	Spec, Freq	Pozefsky	AC	23	(1951)	1611
		2-16 μ	L	Spec	Rappaport	JACS	75	(1953)	2695
		-	-	Assign	Katritzky	SA	16	(1960)	964
$C_6H_{12}O_2$	n-Hexanoic acid	5-10 μ	Sol	Spec, Assign	Klotz	JPCC	52	(1948)	961
		700-4000	S,L, Sol	Freq, Ext coefficient	Flett	JCS	-	(1951)	962
		1-12 μ	Sol	Spec, Ext coefficient	O'Connor	JAOC	28	(1951)	154
		2-14 μ	S	Spec	Harple	AC	24	(1952)	635
		6.81-13.61 μ	L	Freq, I, Spec	Fowler	JOSA	43	(1953)	1054
		3500-670	L,S	Spec	Corish	JCS	-	(1957)	1746
		3-6 μ	Sol	I	Wenograd	JACS	79	(1957)	5844
$C_6H_{12}O_2$	2-Hydroxymethyltetra-hydropyran	3500-3700	Sol	H bond	Barker	TE	7	(1959)	10

$C_6H_{12}O_2$	Isoamyl formate	1752	G	Freq	Hartwell	JCS	-	(1948)	1436
$C_6H_{12}O_2$	Isobutyl acetate	500-1750	L	Assign	Thompson	JCS	-	(1945)	640
		1770	G	Freq	Hartwell	JCS	-	(1948)	1436
		2800-3000	Sol	Freq, Spec	Pozefsky	AC	23	(1951)	1611
		-	-	Freq	Karpovich	JCP	22	(1954)	1767
		1200	Sol	Band I	Russell	JCS	-	(1955)	479
		-	Sol	Freq, I	Thompson	SA	13	(1958)	236
$C_6H_{12}O_2$	Isocaproic acid	-	Sol	I, Freq	Wenograd	JACS	79	(1957)	5844
$C_6H_{12}O_2$	Isopropyl propionate	5-20μ	L	Freq, Assign	Thompson	JCS	-	(1945)	640
		1758	G	Freq	Hartwell	JCS	-	(1948)	1436
		2800-3000	Sol	Freq, Spec	Pozefsky	AC	23	(1951)	1611
		800-1500	Sol	Assign	Katritzky	SA	16	(1960)	954
		-	-	Assign	Katritzky	SA	16	(1960)	964
$C_6H_{12}O_2$	3-Methylene-1,5-pentanediol	-	-	Indic no ac	Blonoquist	JACS	77	(1955)	78
$C_6H_{12}O_2$	Methyl trimethyl acetate	500-1750	L	Assign	Thompson	JCS	-	(1945)	640
		1758	G	Freq	Hartwell	JCS	-	(1948)	1436
		2-15μ	-	Freq, Struct	Rasmussen	JACS	71	(1949)	1073
$C_6H_{12}O_2$	Methyl valerate	6.84-13.59μ	L	Freq, I	Fowler	JOSA	43	(1953)	1054
$C_6H_{12}O_2$	β-Propoxypropaldehyde	-	-	Ident	Hall	JCS	-	(1954)	3388
$C_6H_{12}O_2$	n-Propyl propionate	-	L	Freq	Bonino	TFS	25	(1929)	876
		0.8-2.5μ	L	Spec	Sappenfield	PR	33	(1929)	37
		1740	Sol	Freq	Hompton	AC	21	(1949)	914
		2800-3000	Sol	Freq, Spec	Pozefsky	AC	23	(1951)	1611
		800-1500	Sol	Assign	Katritzky	SA	16	(1960)	954
		-	-	Assign	Katritzky	SA	16	(1960)	964
$C_6H_{12}O_2$	2,2,4-Trimethyl-1,3-dioxolan	400-3100	G	Freq, Assign	Barker	JCS	-	(1959)	802

$C_6H_{12}O_2Si$	Diallylsilanediol	2.5-4 μ	S,Sol	Spec, Struct, H bond	Kakudo	JCP	21 (1953)	1894
$C_6H_{12}O_3$	t-Butyl peracetate	-	-	Freq	Davison	JCS	- (1951)	2456
		6.65-5000	L	Freq	Ory	AC	32 (1960)	509
$C_6H_{12}O_3$	1-Dimethoxymethyl-2-methoxy-trans ethylene	-	Sol	Freq, Spec	Potts	SA	15 (1959)	679
$C_6H_{12}O_3$	2-Ethyl-1:3-dioxan-5-diol	3500-3700	Sol	H bond	Barker	TE	7 (1959)	10
$C_6H_{12}O_3$	Ethyl ethoxyacetate	2-15 μ	Sol	Spec	Roberts	JACS	74 (1952)	3679
$C_6H_{12}O_3$	Ethyl β-hydroxybutyrate	3 μ	Sol	H bond	Mori	NKZ	77 (1956)	459
$C_6H_{12}O_3$	1-Hydroxycyclohexyl-1-hydroperoxide	-	-	Spec	Cooper	JCS	- (1951)	1340
$C_6H_{12}O_3$	4-Hydroxymethyl-2,2-dimethyl-1,3-dioxalan	400-3100	G	Freq, Assign	Barker	JCS	- (1959)	802
$C_6H_{12}O_3$	Paraldehyde	-	-	Freq	Fugassi	JPC	46 (1942)	630
$C_6H_{12}O_4$	Ethyl 2-methoxyethyl-carbonate	1500-5000	Sol	Freq	Briggs	AC	29 (1957)	904
$C_6H_{12}O_4S_2$	1,1-Diethylsulphonyl-ethylene	-	Sol	Freq, Spec	Potts	SA	15 (1959)	679
$C_6H_{12}O_4S_2$	2,5-Dimethyl-p-dithiane-1,1,4,4-tetroxide	670-1330	S	Ident	Marvel	JACS	76 (1954)	61
$C_6H_{12}O_4S_2$	2,6-Dimethyl-p-dithiane-1,1,4,4-tetroxide	-	-	Ident	Marvel	JACS	76 (1954)	61
$C_6H_{12}O_4Se_2$	Diselenium-α-dipropionic acid	2-40 μ	-	Assign	Bergson	ARK	13 (1958)	11

$C_6H_{12}O_4Se_2$	Diselenium-β-dipropionic acid	2-40 μ	-	Assign	Bergson	ARK	13	(1958)	11
$C_6H_{12}O_4Si$	Dimethyldiacetoxy-silane	0.8 μ	Sol	Spec, Freq	Okawara	JACS	82	(1960)	3287
$C_6H_{12}O_5$	1,4-Anhydro-D-mannitol	700-1000	S	Freq, I	Barker	JCS	-	(1954)	4550
$C_6H_{12}O_5$	3,6-Anhydrosorbitol	700-1000	S	Freq, I	Barker	JCS	-	(1954)	4550
$C_6H_{12}O_5$	2-Deoxy-β-D-galactopyranose	-	S	Freq, I	Barker	JCS	-	(1954)	4211
$C_6H_{12}O_5$	6-Deoxy-β-D-galactopyranose	-	S	Freq, I	Barker	JCS	-	(1954)	3468
$C_6H_{12}O_5$	2-Deoxy-β-D-glucopyranose	-	S	Freq, I	Barker	JCS	-	(1954)	4211
$C_6H_{12}O_5 \cdot H_2O$	6-Deoxy-α-L-mannopyranose monohydrate	-	S	Freq, I	Barker	JCS	-	(1954)	3468
$C_6H_{12}O_5$	L-Fucose	8-15 μ	S	Spec	Kuhn	AC	22	(1950)	276
		-	S	Freq, I	Whistler	AC	25	(1953)	1463
$C_6H_{12}O_5$	Methyl α-D-arabopyranoside	-	S	Freq, I	Barker	JCS	-	(1954)	3468
$C_6H_{12}O_5$	Methyl β-D-arabopyranoside	-	S	Freq, I	Barker	JCS	-	(1954)	3468
$C_6H_{12}O_5$	Methyl D-ribofuranoside	700-1000	L	Freq, I	Barker	JCS	-	(1954)	4550
$C_6H_{12}O_5$	Methyl α-D-xylopyranoside	-	S	Freq, I	Barker	JCS	-	(1954)	3468

$C_6H_{12}O_5$	Methyl β-D-xylo-pyranoxide	8-15 μ	S	Spec	Kuhn	AC	22	(1950)	276
		-	S	Freq, I	Barker	JCS	-	(1954)	3468
$C_6H_{12}O_5$	protoquercitol	-	S	Freq	Barker	JCS	-	(1954)	4211
$C_6H_{12}O_5$	scyllo-Quercitol	-	S	Freq	Barker	JCS	-	(1954)	4211
$C_6H_{12}O_5$	l-vibo-Quercitol	-	S	Freq	Barker	JCS	-	(1954)	4211
$C_6H_{12}O_5$	L-l-Rhamnose	1.7-4.6 μ	Sol	Spec, Struct	Barr	JCP	8	(1940)	51
		-	-	Freq assign	Loofbourow	RMP	12	(1940)	267
		8-15 μ	S	Spec	Kuhn	AC	22	(1950)	276
		-	S	Freq, I	Whistler	AC	25	(1953)	1463
$C_6H_{12}O_5$	Tetrahydro-3,4-dihydroxy-2,5-dimethoxyfuran	-	S	Freq	Friedmann	JCS	-	(1954)	3687
$C_6H_{12}O_6$	Fructose	1100-3030	Sol	Freq, Assign	Rogers	JACS	60	(1938)	2619
		1.7-4.6 μ	Sol	Spec, Struct	Barr	JCP	8	(1940)	51
		-	-	Freq, Assign	Loofbourow	RMP	12	(1940)	267
		-	S	Freq, I	Whistler	AC	25	(1953)	1463
		2-15 μ	S	Spec, Ident	Resnik	AC	29	(1957)	1874
$C_6H_{12}O_6$	β-D-Galactopyranose	-	S	Freq, I	Barker	JCS	-	(1954)	3468
		800-3000	S	Freq	Barker	N	186	(1960)	307
$C_6H_{12}O_6$	α-D-Galactose	800-3000	S	Freq	Barker	N	186	(1960)	307
$C_6H_{12}O_6$	D-d-Galactose	1125-3030	Sol	Freq assign	Rogers	JACS	60	(1938)	2619
		1.7-4.6 μ	Sol	Spec, Struct	Barr	JCP	8	(1940)	51
		-	-	Freq, Assign	Loofbourow	RMP	12	(1940)	267
		8-15 μ	S	Spec	Kuhn	AC	22	(1950)	276
		-	S	Freq, I	Whistler	AC	25	(1953)	1463
		-	S	Freq, I	Barker	JCS	-	(1954)	3468
		2-15 μ	S	Study interaction with KB	Barker	CIL	46	(1954)	1418

$C_6H_{12}O_6$	α-D-Glucopyranose	-	S	Freq, I	Barker	JCS	-	(1954)	171
		-	S	Freq, I	Barker	JCS	-	(1954)	3468
		-	S	Freq, I	Barker	JCS	-	(1954)	4211
		3100-3600	S	Spec	Marrinan	JAP	4	(1954)	204
		700-1000	S	Freq	Nakanishi	BCSJ	29	(1956)	434
		3-15 μ	S	Spec	Farmer	SA	8	(1957)	374
		800-3000	S	Freq	Barker	N	186	(1960)	307
$C_6H_{12}O_6$	β-D-Glucopyranose	-	S	Spec	Barker	CIL	46	(1954)	1418
		-	S	Freq, I	Barker	JCS	-	(1954)	171
		-	S	Freq, I	Barker	JCS	-	(1954)	3468
		-	S	Freq, I	Barker	JCS	-	(1954)	4211
		800-3000	S	Freq	Barker	N	186	(1960)	307
$C_6H_{12}O_6$	D-Glucose	1000-3030	Sol	Freq, Assign	Rogers	JACS	60	(1938)	2619
		1.7-4.6 μ	Sol	Spec, Struct	Barr	JCP	8	(1940)	51
		-	-	Freq	Bushwell	JPC	44	(1940)	1126
		-	-	Freq, Assign	Loofbaurow	RMP	12	(1940)	267
		2-15 μ	S	Spec, Struct	Kuhn	AC	22	(1950)	276
		-	S	Freq, I	Schwarz	APS	6	(1952)	15
		-	S	Freq, I	Whistler	AC	25	(1953)	1463
		750-930	S	Spec	Barker	CIL	46	(1954)	1418
		-	S	Spec	Kalkwarf	AC	26	(1954)	191
$C_6H_{12}O_6$	d-Inositol	-	S	Freq	Barker	JCS	-	(1954)	4211
$C_6H_{12}O_6$	l-Inositol	-	S	Freq	Barker	JCS	-	(1954)	4211
$C_6H_{12}O_6$	i-Inositol	8-15 μ	S	Spec	Kuhn	AC	22	(1950)	276
		700-1500	S	Spec	Shay	AC	26	(1954)	652
$C_6H_{12}O_6$	meso-Inositol	-	S	Freq	Barker	JCS	-	(1954)	4211
$C_6H_{12}O_6$	muco-Inositol	-	S	Freq	Barker	JCS	-	(1954)	4211
$C_6H_{12}O_6$	scyllo-Inositol	-	S	Freq	Barker	JCS	-	(1954)	4211
$C_6H_{12}O_6$	α-L-Mannopyranose	-	S	Freq	Barker	JCS	-	(1954)	3468

$C_6H_{12}O_6$	α-D-Mannose	800-3000	S	Freq	Barker	N	186	(1960)	307
$C_6H_{12}O_6$	β-D-Mannose	2-15 μ	S	Interaction with KBr	Barker	CIL	46	(1954)	1418
		800-3000	S	Freq	Barker	N	186	(1960)	307
$C_6H_{12}O_6$	D-Mannose	1040-3030	Sol	Freq, Assign	Rogers	JACS	60	(1938)	2619
		1.7-4.6 μ	Sol	Spec	Barr	JCP	8	(1940)	51
		-	-	Freq, Assign	Loofbourow	RMP	12	(1940)	267
		2-15 μ	S	Spec	Kuhn	AC	22	(1950)	276
		-	S	Freq, I	Whistler	AC	25	(1953)	1463
		-	S	Freq, I	Barker	JCS	-	(1954)	3468
$C_6H_{12}O_6$	L-Sorbose	8-15 μ	S	Spec	Kuhn	AC	22	(1950)	276
$C_6H_{12}O_6$	α-D-Talopyranose	2-15 μ	S	Spec, Config	Isbell	JRNB	57	(1956)	179
$C_6H_{12}O_6$	β-D-Talopyranose	2-15 μ	S	Spec, Config	Isbell	JRNB	57	(1956)	179
$C_6H_{12}O_6B_2$	Tetramethylene diborate	6-14 μ	L,S	Freq, Struct	Blau	JCS	-	(1960)	380
$C_6H_{12}S$	Cyclohexanethiol	500-1000	L	Spec	Sheppard	TFS	46	(1950)	429
		2-15 μ	L	Spec	Arnold	AC	24	(1952)	1741
		-	-	Ident	Moore	JCS	-	(1954)	2082
$C_6H_{12}S$	2-Methylthiacyclohexane	650-3500	-	Spec	Leonard	JACS	74	(1952)	917
$C_6H_{12}S$	Thiacycloheptane	650-3500	-	Spec	Leonard	JACS	74	(1952)	917
$C_6H_{12}S_2$	1,1-Cyclohexanedithiol	2.5-15 μ	L	Spec, Freq	Cairns	JACS	74	(1952)	3982
$C_6H_{12}S_2$	Isobutyl dithioacetate	865-2955	L	Freq	Marvel	JACS	77	(1955)	5997
$C_6H_{12}Si$	Dimethyldivinylsilane	3-15 μ	L	Spec	Kozima	BCSJ	27	(1954)	287

$C_6H_{13}DO$	n-Hexanol-d_1	-	L	O-D band study	Quinan	JCP	21 (1953)	1896
		650-4000	G,L	Freq, I	Quinan	AC	26 (1954)	1762
		350-4000	L,S	O-D band study	Stuart	JCP	24 (1956)	559
$C_6H_{13}DS$	n-Hexanethiol-d_1	-	L	Freq	Plant	JACS	77 (1955)	1572
$C_6H_{13}Br$	n-Hexyl bromide	500-1500	L,S	Spec, Iso	Brown	TFS	50 (1954)	535
		-	L	Mole ratio of trans and Gauche	Yoshino	CJC	35 (1957)	339
$C_6H_{13}Cl$	n-Hexyl chloride	16-25μ	L	Transparent solvent	Morrison	JSI	29 (1952)	233
$C_6H_{13}ClO_2S$	n-Hexanesulfonyl chloride	-	-	Spec, Assign	Geisler	ZE	63 (1959)	1140
$C_6H_{13}Cl_3OSi$	Trichlorosilylethyl butyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_6H_{13}Cl_3OSi$	Trichlorosilylbutyl ethyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_6H_{13}Cl_3OSi$	Trichlorosilylpentyl methyl ether	-	-	Inductive effect	Josien	CPR	249 (1959)	826
$C_6H_{13}N$	Allyl isopropylamine	2-15μ	L	Freq, Assign, NCA	Stewart	JCP	30 (1959)	1259
$C_6H_{13}N$	Cyclohexylamine	6300-6800	Sol	Spec	Wulf	JACS	57 (1935)	1464
		600-1000	L	Spec	Heacock	CJC	34 (1956)	1782
		2-8μ	S	Spec	Nakanishi	BCSJ	30 (1957)	403
		3μ	Sol	Freq	Mason	JCS	- (1958)	3619
		3μ	Sol	Freq, FC	Elliot	JCS	- (1959)	1275
		2-15μ	L,Sol	Freq assign, NCA	Stewart	JCP	30 (1959)	1259
$C_6H_{13}N.HBr$	Cyclohexylamine hydrobromide	1000-3500	S,Sol	Freq, Spec	Chenon	CJC	36 (1958)	1181
		2000-4000	S	H bond	Brisette	CJC	38 (1960)	34

$C_6H_{13}N.HCl$	Cyclohexylamine hydrochloride	600-4000	S	Spec	Heacock	CJC	34	(1956)	1782
		2-8 μ	S	Spec	Nakanishi	BCSJ	30	(1957)	403
		1000-3500	S,Sol	Freq, Spec	Chenon	CJC	36	(1958)	1181
		2000-4000	S	H bond	Brisette	CJC	38	(1960)	34
$C_6H_{13}N.HI$	Cyclohexylamine hydriodide	1000-3500	S	Freq, Spec	Chenon	CJC	36	(1958)	1181
		2000-4000	S	H bond	Brisette	CJC	38	(1960)	34
$C_6H_{13}N.HClO_4$	Cyclohexylamine perchlorate	600-4000	S	Spec, Band study	Heacock	CJC	39	(1956)	1782
$C_6H_{13}N$	cis-2,5-Dimethyl-pyrrolidine	2-15 μ	-	Freq	Overberger	JACS	77	(1955)	4100
$C_6H_{13}N$	trans-2,5-Dimethyl-pyrrolidine	2-15 μ	-	Freq	Overberger	JACS	77	(1955)	4100
$C_6H_{13}N$	Hexamethyleneimine	3.38-3.6 μ	S	Freq	Ory	AC	32	(1960)	509
$C_6H_{13}N$	2-Methylpiperidine	-	-	Ident	Jones	JCS	-	(1952)	3261
		3-4 μ	L,Sol	Stretch freq	Tallent	AC	28	(1956)	953
		2900-3100	Sol	Freq	Hill	JCS	-	(1958)	760
$C_6H_{13}N.HCl$	2-Methylpiperidine hydrochloride	2-8 μ	S	Spec	Nakanishi	BCSJ	30	(1957)	403
$C_6H_{13}N.HCl$	N-Methylpiperidine hydrochloride	600-4000	S	Assign	Stone	JCS	-	(1958)	52
$C_6H_{13}NO$	cis-2-Aminocyclohexanol	-	Sol	Freq, Assign	Sicher	CCCC	24	(1959)	950
$C_6H_{13}NO$	trans-2-Aminocyclohexanol	-	Sol	Freq, Assign	Sicher	CCCC	24	(1959)	950
$C_6H_{13}NO$	N-Butylacetamide	-	-	Spec, Struct	Abbott	PRS	219	(1953)	17
		2-15 μ	L,Sol	Freq, Assign	Letaw	JCP	21	(1953)	1621
		3000-3550	Sol	Spec	Badger	PNAS	40	(1954)	12
		-	Sol	Freq	Klemperer	JACS	76	(1954)	5846
		1200-8000	Sol	Freq assign	Hecht	PRS	235	(1956)	174
		400-3400	L,Sol	Spec, Freq assign	Beer	JCP	29	(1958)	1097

$C_6H_{13}NO$	N^{15}-Butylacetamide (Isotopic)	-	-	-	Vaughan	JOC	20	(1955)	819
$C_6H_{13}NO$	N,N-Diethylacetamide	1500-3600	S,Sol	Assign, Spec	Richards	JCS	-	(1947)	1248
		1633	Sol	Freq, I	Barrow	JCP	21	(1953)	2008
		-	L	Freq	Robson	JACS	77	(1955)	498
		1760-1560	Sol	Freq, I	Archibald	SA	12	(1958)	34
		51-59 μ	Sol	I	Schmulback	JCP	64	(1960)	1956
$C_6H_{13}NO$	1-Ethylmorpholine	3.38-3.6 μ	S	Freq	Wright	JOC	24	(1959)	1362
$C_6H_{13}NO$	N-Ethylmorpholine	-	-	Bands	Hill	JCS	-	(1958)	760
$C_6H_{13}NO.HCl$	N-Ethylmorpholine hydrochloride	600-400	S	Freq, Assign	Stone	JCS	-	(1958)	52
$C_6H_{13}NO.HI$	N-Ethylmorpholine hydriodide	2-8 μ	S	Spec	Nakanishi	BCSJ	30	(1957)	403
$C_6H_{13}NO$	Caproamide	1500-3600	S,Sol	Spec, Assign	Richards	JCS	-	(1947)	1248
		5-10 μ	S,Sol	Spec, Assign	Kloty	JPCC	52	(1948)	961
		-	-	FC	Richards	TFS	44	(1948)	40
		4400-5100	S	Spec	Elliot	PRS	211	(1952)	490
$C_6H_{13}NO$	4-Hydroxy-1-methyl-piperidine	3.38-3.6 μ	S	Freq	Wright	JOC	24	(1959)	1362
$C_6H_{13}NO$	2-Methyl-2-ethyl-oxazolidine	-	Sol	Freq, Ext coefficient	Bergmann	JACS	75	(1953)	358
$C_6H_{13}NO$	N-Propylpropion-amide	1200-8000	Sol	Freq assign	Hecht	PRS	235	(1956)	174
		600-3400	L,Sol	Spec, Freq assign	Beer	JCP	29	(1958)	1097
$C_6H_{13}NO_2$	α-Aminocaproic acid	-	S	Freq, I	Witkop	JACS	76	(1954)	5589
$C_6H_{13}NO_2$	ϵ-Amino-n-caproic acid	3060-3290	S	Band study	Abbott	PRS	219	(1953)	17
		-	S	Freq, I	Witkop	JACS	76	(1954)	5589
		1538-909	Sol	Spec	Parker	SA	16	(1960)	910

$C_6H_{13}NO_2$	N,N-Diethylglycine	-	Sol	H bond, Freq	Barrow	JACS	80 (1958)	86
$C_6H_{13}NO_2$	n-Hexyl nitrite	420-4000	-	Spec, Assign	Gray	DA	19 (1958)	454
$C_6H_{13}NO_2$	DL-Isoleucine	1-12 μ	Sol	Spec, Freq	Lacher	JPC	58 (1954)	206
		600-4000	S	Ident	Epp	AC	29 (1957)	1283
		667-5000	S	Spec, Freq, Struct	Leifer	JACS	79 (1957)	5098
$C_6H_{13}NO_2$	L-Isoleucine	6-11 μ	Sol	Spec	Parker	N	187 (1960)	386
		1538-909	Sol	Spec	Parker	SA	16 (1960)	910
$C_6H_{13}NO_2$	L-Leucine	2-15 μ	S	Spec, Ident	Larson	ACS	4 (1950)	27
		1-12 μ	Sol	Spec, Freq assign	Lacher	JPC	58 (1954)	206
		600-4000	S	Ident	Epp	AC	29 (1957)	1283
		6-11 μ	Sol	Spec	Parker	N	187 (1960)	386
		1538-909	Sol	Spec	Parker	SA	16 (1960)	910
$C_6H_{13}NO_2$	N-Methyl-β-hydroxy-isovaleramide	-	-	OH and NH indic	Gresham	JACS	76 (1954)	486
$C_6H_{13}NO_2$	2-Morpholinoethanol	3 μ	Sol	Freq	Flett	SA	10 (1958)	21
$C_6H_{13}NO_2$	1-Nitrohexane	-	L	Freq, I	Haszeldine	JCS	- (1953)	2525
$C_6H_{13}NO_2$	DL-Norleucine	5-10 μ	S	Spec, Assign	Klotz	JPCC	52 (1948)	961
		667-5000	S	Spec, Freq, Struct	Leifer	JACS	79 (1957)	5098
$C_6H_{13}NO_2.HCl$	Norleucine hydrochloride	5-10 μ	-	Spec, Assign	Klotz	JPCC	52 (1948)	961
$C_6H_{13}NO_2S$	DL-Ethionine	909-1538	Sol	Spec	Parker	SA	16 (1960)	910
$C_6H_{13}NO_3$	1,3-Dimethylbutyl nitrate	2-15 μ	Sol	Spec, Struct	Carrington	SA	16 (1960)	1279
$C_6H_{13}NO_3$	n-Hexyl nitrate	2-15 μ	Sol	Spec, Struct	Carrington	SA	16 (1960)	1279
$C_6H_{13}NO_5$	scyllo-Inosamine	-	-	C-N freq	Straube	JACS	75 (1953)	694

$C_6H_{13}NO_5$	D,L-epi-Inosamine-2	-	-	Freq	Straube	JACS	75	(1953)	694
$C_6H_{13}NO_5$	myo-Inosamine-2	-	-	Freq	Straube	JACS	75	(1953)	694
$C_6H_{13}NO_5$	D,L-myo-Inosamine-4	-	-	Freq	Straube	JACS	75	(1953)	694
$C_6H_{13}NO_5$.HCl	2-Amino-2-deoxy-α-D-glucopyranose hydrochloride	8-15 μ -	S S	Spec Freq, I	Kuhn Barker	AC JCS	22 -	(1950) (1954)	1950 171
$C_6H_{13}NO_6$	D-Galactose oxime	8-15 μ	S	Spec	Kuhn	AC	22	(1950)	276
$C_6H_{13}NO_6$	D-Mannose oxime	8-15 μ	S	Spec	Kuhn	AC	22	(1950)	276
$C_6H_{13}NS$	N-n-Butylthioacetamide	686-3220	L	Freq	Marvel	JACS	77	(1955)	5997
$C_6H_{13}NS$	N,N-Diethylthioacetamide	-	-	Ident	Moore	JCS	-	(1954)	2082
$C_6H_{13}N_3O$	Diethyl ketone semicarbazone	700-3500	S	Ident, Assign	Davison	JCS	-	(1955)	3389
$C_6H_{13}N_3O$	Methyl isopropyl ketone semicarbazone	700-3500	S	Ident, Assign	Davison	JCS	-	(1955)	3389
$C_6H_{13}N_3O$	Methyl n-propyl ketone semicarbazone	700-3500	S	Ident, Assign	Davison	JCS	-	(1955)	3389
$C_6H_{13}N_3O_2$.HCl	Creatine ethyl ester hydrochloride	680-3400	S	Spec	Mold	JACS	77	(1955)	178
$C_6H_{13}O_2SB$	n-Butylethylene thioborate	2-14 μ	L,S	Struct, Freq	Blau	JCS	-	(1960)	380
$C_6H_{13}O_3P$	Cyclohexylphosphonic acid	- -	- -	Freq Freq	Bellamy Braunholtz	JCS JCS	- -	(1952) (1959)	1701 868

$C_6H_{13}O_3P$	Diethyl vinylphosphonate	600-3000	L	Spec, Assign, Config	Gillis	JACS	80	(1958)	2999
$C_6H_{13}O_3S$	n-Hexane-1-sulfonate	500-4000	S	Struct	Fujimori	BCSJ	32	(1959)	850
$C_6H_{13}O_3B$	sec-Butylethylene borate	2-14 μ	L,S	Assign, Struct	Blau	JCS	-	(1960)	380
$C_6H_{13}O_3B$	Isobutylethylene borate	2-14 μ	L,S	Assign, Struct	Blau	JCS	-	(1960)	380
$C_6H_{13}O_4P$	Cyclohexyldiacid phosphate	-	-	Freq	Bell	JACS	76	(1954)	5185
$C_6H_{13}O_9P$	Glucose-1-phosphate	9-12 μ	S	Freq	Schwarz	APS	6	(1952)	15
C_6H_{14}	2,2-Dimethylbutane	1-30 μ	G	Spec	Kettering	P	4	(1933)	39
		-	-	Thermo	Pitzer	CR	27	(1940)	39
		2-15 μ	G	Spec	Avery	JCP	10	(1942)	10
		700-1450	-	Spec	Thompson	JCS	-	(1944)	183
		-	-	Freq	Kellner	TFS	41	(1945)	217
		2.5-13.5 μ	L	Spec	Fry	JAP	17	(1946)	150
		-	-	Thermo, Assign	Kilpatrick	JACS	68	(1946)	1066
		-	L	Analysis	Glasgow	JRNB	38	(1947)	537
		-	-	Analysis	Heigl	IEC	19	(1947)	293
		-	-	Freq	Kent	AC	19	(1947)	290
		-	-	Freq	Sutherland	JCP	15	(1947)	153
		-	-	Assign	Sheppard	JCP	16	(1948)	690
		8000-9000	Sol	Analysis	Hibbard	AC	21	(1949)	486
		-	-	Thermo	Kilpatrick	JCP	17	(1949)	1064
		-	-	Band width and temp	Rank	JCP	17	(1949)	1339
		-	-	Analysis, Assign	Sheppard	JCP	17	(1949)	455
		-	-	Freq	Simpson	PRS	199	(1949)	169
		-	-	Shape of band at low temp	Walsh	JCP	17	(1949)	8382
		-	G	Analysis	Bell	AC	22	(1950)	1005
		1370-2900	L	I	Francis	JCP	18	(1950)	861
		-	L	Analysis	Ipatieff	JACS	73	(1951)	553
		-	-	Analysis	Hastings	AC	24	(1952)	612

		350-700	L	Freq	Donneaud	CPR	239	(1954)	1480
		15-35μ	S	Spec, Struct	Bentley	SA	15	(1959)	165
C_6H_{14}	2,3-Dimethylbutane	1-19μ	G	Spec	Kellering	P	4	(1933)	39
		1.1-1.8μ	Sol	Spec	Liddel	JRNB	11	(1933)	599
		-	Sol	Spec, Assign	Fox	PRS	179	(1940)	208
		-	-	Thermo	Pitzer	CR	27	(1940)	39
		700-1450	-	Spec	Thompson	JCS	-	(1944)	183
		-	-	Freq	Kellner	TFS	41	(1945)	217
		8.2-9μ	L	Spec	Fry	JAP	17	(1946)	150
		-	-	Ext coefficient	Lee	IEC	18	(1946)	659
		-	L	Analysis	Glasgow	JRNB	38	(1947)	1947
		-	-	Analysis	Heigl	IEC	19	(1947)	293
		-	-	Freq	Kent	AC	19	(1947)	290
		-	-	Thermo, Assign	Szasz	JCP	17	(1949)	93
		-	G	Analysis	Axford	JCP	18	(1950)	51
		650-1600	L,S	Iso	Bell	AC	22	(1950)	1005
		-	-	Iso	Sheppard	JCP	18	(1950)	145
		-	S	Iso	Brown	JCP	19	(1951)	976
		-	L	Analysis	Ipatieff	JACS	73	(1951)	553
		-	-	Analysis	Schrieder	JACS	73	(1951)	5013
		-	-	Iso, Thermo, Assign	Scott	JACS	73	(1951)	1707
		-	-	Analysis	Hastings	AC	24	(1952)	612
		2-15μ	L	Spec	Rossini	APS	6	(1952)	3
		350-700	L	Freq	Donneaud	CPR	239	(1954)	1480
		-	-	Iso	Podlovchenko	OS	6	(1959)	146
C_6H_{14}	n-Hexane	0-2.5μ	L	Spec	Ellis	PR	23	(1924)	48
		6-14μ	L	Spec, Absorption	Ellis	PR	27	(1926)	298
		2825-3050	G	Freq	Meyer	JOSA	15	(1927)	257
		59-2.8μ	L	IR, Visible spec	Ellis	PR	32	(1928)	906
		-	-	Band freq	Bonino	TFS	25	(1929)	876
		-	-	Heat of bond linkage	Ellis	PR	33	(1929)	27
		-	-	Band overtones	Ellis	TFS	25	(1929)	888
		0-2.4μ	L	Spec	Lecomte	TFS	25	(1929)	864
		1-19μ	G	Spec	Kettering	P	4	(1933)	39
		1.1-1.8μ	Sol	Spec	Liddel	JRNB	11	(1933)	599
		-	G	Assign	Adel	JCP	2	(1934)	627

52-152μ	L	Dispersion	Cartwright	PRS	154	(1936)	138
-	-	Freq, Vib	Kirkwood	JCP	7	(1939)	506
-	-	Thermo	Pitzer	CR	27	(1940)	39
-	-	Thermo	Pitzer	JCP	8	(1940)	711
1300-1700	-	Spec	Barnes	IEC	15	(1943)	659
3-4μ	L	Prism dispersion	Wright	RSI	15	(1944)	22
-	-	Freq	Kellner	TFS	41	(1945)	217
6.5-14μ	L	Spec	Thompson	PRS	184	(1945)	3
-	-	Assign, FC	Ahonen	JCP	14	(1946)	625
8.2-9μ	L	Spec, Quant anal	Fry	JAP	17	(1946)	190
-	-	Absorption freq	Kent	AC	19	(1947)	290
-	-	IR, Assign	Sheppard	JCP	16	(1948)	690
-	-	IR, Vib anal	Gates	JCP	17	(1949)	393
-	-	Vib freq	Mizushima	JACS	71	(1949)	1320
-	-	Band width	Rank	JCP	17	(1949)	1339
-	-	Assign, Thermo	Sheppard	JCP	17	(1949)	86
-	-	Selection rule	Simanouti	JCP	17	(1949)	1102
1600-650	L,S	Rotational iso	Axford	JCP	18	(1950)	51
-	G	Anal	Bell	AC	22	(1950)	1005
3.4μ	-	Group anal	Hastings	AC	24	(1952)	612
-	-	Anal	Jones	JCS	-	(1952)	3261
5600-800	L	Spec, Group I	Lauer	APS	6	(1952)	29
3.45μ	G	Anal	Mader	AC	24	(1952)	1899
15-25μ	L	Solvent effect	Marison	JSI	29	(1952)	233
244-120	G	Absorption study	O'Loane	JCP	21	(1953)	669
-	G,S	Thermo, Assign	Person	JACS	75	(1953)	532
700-350	L	Table, Freq	Donneaud	CPR	239	(1954)	1480
-	-	Ident	Greenfield	JACS	76	(1954)	1258
2-12μ	Sol	Struct, Band freq	O'Connor	JACS	76	(1954)	2368
13-8μ	S	Freq	Stein	JCP	22	(1954)	1993
145-650	S	Freq assign	Tschamler	JCP	22	(1954)	1845
-	-	Rocking freq	Corish	JCS	-	(1955)	2431
3.45μ	G	Struct	Levin	AC	27	(1955)	599
3-4μ	L,Sol	Stretch freq	Tallent	AC	28	(1956)	953
700-1300	Sol	Ext coeff	Jones	SA	9	(1957)	235
-	-	Vib anal, Dipole moment	Theimer	JCP	27	(1957)	1041
700-4000	L,Sol	Freq, Ext coeff	Demaine	CJC	38	(1960)	1921

C_6H_{14}	2-Methylpentane	1-30μ	G	Spec	Kettering	P	4	(1933)	39
		-	-	Thermo	Pitzer	CR	27	(1940)	39
		-	-	Freq	Kellner	TFS	41	(1945)	217
		8.2-9μ	L	Spec, Quant anal	Fry	JAP	17	(1946)	150
		-	L	Anal	Glasgow	JRNB	38	(1947)	537
		-	-	Anal	Heigl	IEC	19	(1947)	293
		-	-	Absorption freq	Kent	AC	19	(1947)	290
		-	-	Freq	Sutherland	JCP	15	(1947)	153
		-	-	IR, Assign	Sheppard	JCP	16	(1948)	690
		-	-	Freq	Simpson	PRS	199	(1949)	169
		-	G	Anal	Bell	AC	22	(1950)	1005
		-	-	Anal	Schneider	JACS	73	(1951)	5013
		-	-	Group anal	Hastings	AC	24	(1952)	612
		700-350	L	Table, Freq	Donneaud	CPR	239	(1954)	1480
		15-35μ	S	Spec, Struct	Bentley	SA	15	(1959)	165
C_6H_{14}	3-Methylpentane	1-30μ	G	Spec	Kettering	P	4	(1933)	39
		1.1-1.8μ	Sol	Spec	Liddel	JRNB	11	(1933)	599
		-	-	Thermo	Pitzer	CR	27	(1940)	39
		-	-	Freq	Kellner	TFS	41	(1945)	217
		8.2-9μ	G	Spec, Quant anal	Fry	JAP	17	(1946)	150
		-	-	Anal	Glasgow	JRNB	38	(1947)	537
		-	-	Absorption freq	Heigl	IEC	19	(1947)	293
		-	L	Anal	Kent	AC	19	(1947)	290
		-	-	IR, Assign	Sheppard	JCP	16	(1948)	690
		-	G	Anal	Bell	AC	22	(1950)	1005
		-	-	Anal	Schneider	JACS	73	(1951)	5013
		-	-	Group anal	Hastings	AC	24	(1952)	612
		-	-	Ident	Hennion	JACS	75	(1953)	4297
		700-350	L	Table, Freq	Donneaud	CPR	239	(1954)	1480
$C_6H_{14}ClO_2PS$	Diisopropyl phosporo-chloridothionate	600-900	S	Assign	McIvor	CJC	37	(1959)	869
		-	-	Spec, Freq	PopRov	ZOK	29	(1959)	1998
$C_6H_{14}ClO_2PS$	Di-m-Propylphosphoro-chloridothionate	-	-	Spec, Freq	PopRov	ZOK	29	(1959)	1998

$C_6H_{14}ClO_3P$	Di-isopropyl chloro-phosphonate	900-1060	Sol	Freq, I	Halmann	JCS	-	(1953)	626
$C_6H_{14}ClO_3P$	Di-Osopropyl phosphoro-chloridate	-	-	Spec, Freq	Maarsen	RTC	76	(1957)	713
$C_6H_{14}Cl_2Si$	Dichloro-n-hexyl-silane	2050-2250	Sol	Struct	Smith	SA	15	(1959)	412
$C_6H_{14}FO_3P$	Di-isopropylphosphoro-fluoridate	600-900	L	Assign	McIvor	CJC	37	(1959)	869
$C_6H_{14}FO_3P$	Di-n-propylphosphoro-fluoridate	600-900	L	Assign	Maarsen	RTC	76	(1957)	713
$C_6H_{14}F_4N_2O_2Si$	Silicon tetrafluoride 2-N,N-dimethyl formamide	2-15 μ	S	Spec	Piper	JACS	76	(1954)	4318
$C_6H_{14}NO_2B$	Ethylenediethyl-amino boronate	2-14 μ	S,L	Struct, Freq	Blau	JCS	-	(1960)	380
$C_6H_{14}N_2$	cis-1-Amino-2,5-dimethylpyrrolidine	2-15 μ	-	Ident	Overberger	JACS	77	(1955)	4100
$C_6H_{14}N_2$	trans-1-Amino-2,5-dimethylpyrrolidine	2-15 μ	-	Freq	Overberger	JACS	77	(1955)	4100
$C_6H_{14}N_2$	1-(2-Aminoethyl) pyrrolidine	3.38-3.6 μ	S	Freq	Wright	JOC	24	(1959)	1362
$C_6H_{14}N_2$	Dimethylpiperacine	500-1500	L	Spec, Struct	Hendra	JCS	-	(1960)	5105
$C_6H_{14}N_2$	1,4-Dimethyl-piperazine	2800-3000	L,S	Freq	Braunholtz	JCS	-	(1958)	2780
$C_6H_{14}N_2O$	1-Azoxypropane	-	L	Freq	Langley	JCS	-	(1952)	4191

$C_6H_{14}N_2O$	2-Azoxypropane	-	L	Freq	Langley	JCS	-	(1952)	4191
$C_6H_{14}N_2O$	Di-n-propylnitros amine	6.87-9.35μ	L	Freq, I	Haszeldine	JCS	-	(1954)	691
		-	G,L,Sol	Assign, Spec	Haszeldine	JCS	-	(1955)	4172
$C_6H_{14}N_2O_2$	Isolysine	-	-	Ident, Struct	VanTamleu	JACS	74	(1952)	3713
$C_6H_{14}N_2O_2$	l-Lysine	600-4000	S	Ident	Epp	AC	29	(1957)	1283
$C_6H_{14}N_2O_2$	Nitroso-isopropane dimer	1000-1300	S	Spec, Struct, Iso	Gowenlock	JCS	-	(1957)	3927
$C_6H_{14}N_2O_2$	cis-Nitroso-isopropane dimer	1000-1300	S,Sol	Assign	Gowenlock	JCS	-	(1957)	3927
$C_6H_{14}N_2O_2$	Nitroso-n-propane dimer	1000-1300	Sol,S	Spec, Struct, Iso	Gowenlock	JCS	-	(1957)	3927
$C_6H_{14}N_2O_2$	cis-Nitroso-n-propane dimer	1000-1300	S	Assign	Gowenlock	JCS	-	(1957)	3927
$C_6H_{14}N_4$	Biacetyldihydrazone	600-4000	S	Assign	Bush	JACS	78	(1956)	1137
$C_6H_{14}N_4$	sym-Diethyloxamidine	3-6.5μ	Sol	Spec, Freq	Woodburn	JOC	17	(1952)	1235
$C_6H_{14}N_4O_2$	Arginine	2.2-4.2μ	S	Spec, Assign	Buswell	JPC	46	(1942)	575
		-	S	Freq, I	Witkop	JACS	76	(1954)	5589
		600-4000	S	Ident	Epp	AC	29	(1957)	1283
$C_6H_{14}N_4O_2$	L-Arginine	2-15μ	S	Spec, Ident	Larsson	ACS	4	(1952)	27
$C_6H_{14}N_4O_2 \cdot HCl$	L-Arginine hydrochloride	2.2-4.2μ	S	Spec, Assign	Buswell	JPC	46	(1942)	575
		5-10μ	-	Spec, Assign	Kloty	JPCC	52	(1948)	961
$C_6H_{14}O$	3,3-Dimethyl-butanol-2	665-5000	L	Band freq	Zeiss	JACS	75	(1953)	897

$C_6H_{14}O$	Di-isopropyl ether	2.5-3.1μ	L	Spec, H bond	Gordy	JACS	59	(1937)	464
		5.6-6.0μ	-	Spec	Gordy	JCP	5	(1937)	284
		-	-	Solvent effect	Gordy	JCP	7	(1939)	93
		-	-	Solvent effect	Gordy	JCP	7	(1939)	99
		-	-	Solvent effect	Gordy	JCP	7	(1939)	167
		850-1800	-	Spec	Barnes	IEC	15	(1943)	659
		720-750	L	Band freq	Wiberly	AC	22	(1950)	841
		2750-3000	Sol	Spec, Stretch freq	Pozefsky	AC	23	(1951)	1611
		2579-2689	Sol	H bond, Band freq	Searles	JACS	73	(1951)	3704
		795-1460	-	Table, Ident	Marvel	JACS	76	(1954)	61
		700-4000	L,Sol	Freq, Ext coeff	Demaine	CJC	38	(1960)	1921
$C_6H_{14}O$	Di-n-propyl ether	7-2.5μ	L	Band study	Ellis	JACS	51	(1929)	1384
		52-152μ	L,Sol	Dispersion	Cartwright	PRS	154	(1936)	138
		2750-3000	Sol	Spec, Stretch freq	Cross	TFS	47	(1951)	354
		-	Sol	Ext coeff	Pozefsky	AC	23	(1951)	1611
		3-4μ	L,Sol	Stretch freq	Tallent	AC	28	(1956)	953
		3000	-	Freq, Assign	Nukada	NKZ	80	(1959)	976
$C_6H_{14}O$	2-Ethylbutanol-1	2.6-3.3μ	L,Sol	Spec, H bond	Stanford	JACS	62	(1940)	1247
$C_6H_{14}O$	Ethyl n-butyl ether	800-1500	-	Spec	Barnes	IEC	15	(1943)	659
		-	Sol	Ext coeff	Cross	TFS	47	(1951)	354
		2592-6800	Sol	H bond	Searles	JACS	73	(1951)	3704
		10-15μ	L	Spec	Patterson	AC	26	(1954)	823
$C_6H_{14}O$	Ethyl t-butyl ether	690-1730	Sol	Spec	Philpotts	AC	24	(1952)	638
		665-5000	L	Group freq	Ory	AC	32	(1960)	509
$C_6H_{14}O$	1-Hexanol	-	-	Band freq, Absorption coeff	Bonino	TFS	25	(1929)	876
		-	-	Vib theory, Heat capacity	Lewis	PR	36	(1930)	568
		9-4μ	L,Sol	Spec, H bond	Kinsey	JCP	5	(1937)	399
		2.6-3.3μ	L,Sol	H bond	Stanford	JACS	62	(1940)	1247
		-	-	Anal	Saier	AC	20	(1948)	812
		-	L	Deformation band	Quinan	JCP	21	(1953)	1896
		665-5000	L	Band freq	Zeiss	JACS	75	(1953)	897
		-	L	Band freq	Mosher	AC	27	(1955)	517

		4000-350	L,G, Sol	Spec	Stuart	JCP	24 (1956)	559
		3570-3700	Sol	Freq, I	Flynn	AJC	12 (1959)	575
$C_6H_{14}O$	2-Hexanol	2.6-3.3μ	L,Sol	Spec, H bond	Stanford	JACS	62 (1940)	1247
		665-5000	L	Band freq	Zeiss	JACS	75 (1953)	897
		-	L	Band freq	Mosher	AC	27 (1955)	517
$C_6H_{14}O$	3-Hexanol	2.6-3.3μ	L,Sol	Spec, H bond	Standford	JACS	62 (1940)	1247
		665-5000	L	Band freq	Zeiss	JACS	75 (1953)	897
		-	L	Band freq	Mosher	AC	27 (1955)	517
$C_6H_{14}O$	Methyl isoamyl ether	1-2.5μ	L	Spec	Smith	JACS	48 (1926)	1512
$C_6H_{14}O$	Methyl n-amyl ether	1-2.5μ	L	Spec	Smith	JACS	48 (1926)	1512
		-	Sol	Ext coeff	Sharp	TFS	47 (1951)	354
$C_6H_{14}O$	Methyl t-amyl ether	1-2.5μ	L	Spec	Smith	JACS	48 (1926)	1512
$C_6H_{14}O$	Methyl t-butyl-carbinol	-	-	Band assign	Michinori	BCSJ	32 (1959)	950
$C_6H_{14}O$	Methyl diethyl-carbinyl ether	1-2.5μ	L	Spec	Smith	JACS	48 (1926)	1512
$C_6H_{14}O$	2-Methylpentanol-1	2.6-3.3μ	L,Sol	Spec, H bond	Stanford	JACS	62 (1940)	1247
		350-4000	L,Sol	Band freq	Stuart	JCP	24 (1956)	559
$C_6H_{14}O$	2-Methylpentanol-2	2.6-3.3μ	L,Sol	Spec, H bond	Stanford	JACS	62 (1940)	1247
$C_6H_{14}O$	2-Methylpentanol-4	2.6-3.3μ	L,Sol	Spec, H bond	Stanford	JACS	62 (1940)	1247
		665-5000	L	Band freq	Zeiss	JACS	75 (1953)	897
$C_6H_{14}O$	3-Methylpentanol-1	2.6-3.3μ	L,Sol	Spec, H bond	Stanford	JACS	62 (1940)	1247
$C_6H_{14}O$	3-Methylpentanol-3	1-2.6μ	L	Spec	Smith	JACS	48 (1926)	1512
		1-15μ	L	Spec, H bridging	Smith	JRNB	46 (1951)	145

$C_6H_{14}O_2$	2-Butoxyethanol	720-750	L	Band freq	Wiberly	AC	22 (1950)	841
		3μ	Sol	H bond, Freq	Flett	SA	10 (1958)	21
$C_6H_{14}O_2$	1,2-Diethoxyethane	720-750	L	Band freq	Wiberly	AC	22 (1950)	841
$C_6H_{14}O_2$	Diethylacetyl	-	G,L	Characteristic freq	Nukada	NKZ	80 (1959)	1112
$C_6H_{14}O_2$	4-Ethoxybutanol-1	2.6-3.2μ	Sol	H bond	Wall	JACS	61 (1939)	2679
$C_6H_{14}O_2$	Hexamethylene glycol	2.6-3.2μ	Sol	H bond	Wall	JACS	61 (1939)	2679
		3μ	Sol	Band freq	Kuhn	JACS	74 (1952)	2492
$C_6H_{14}O_2$	2,5-Hexanediol	700-1500	L	Spec, Ident	Shay	AC	26 (1954)	652
$C_6H_{14}O_2$	n-Hexyl hydroperoxide	5.5-14.5μ	L	Spec, Group freq	Mosher	AC	27 (1955)	517
$C_6H_{14}O_2$	2-Hexyl hydroperoxide	5.5-14.5μ	L	Spec, Group freq	Mosher	AC	27 (1955)	517
$C_6H_{14}O_2$	3-Hexyl hydroperoxide	5.5-14.5μ	L	Spec, Group freq	Mosher	AC	27 (1955)	517
$C_6H_{14}O_2$	2-Methyl-1,3-pentanediol	700-1500	L	Spec, Ident	Shay	AC	26 (1954)	652
$C_6H_{14}O_2$	2-Methyl-2,4-pentanediol	700-1500	L	Spec, Ident	Shay	AC	26 (1954)	652
$C_6H_{14}O_2$	3-Methyl-1,5-pentanediol	-	-	Ident	Blomquist	JACS	77 (1955)	78
$C_6H_{14}O_2$	Pinacone	-	L,S	H bond, Freq	Malyshev	IANS	22 (1958)	1107
$C_6H_{14}O_2$	n-Propyl peroxide	6.74-13.12μ	-	Table, I	Welch	JACS	77 (1955)	551
$C_6H_{14}O_2$	Tetramethylethylene glycol	3μ	Sol	Spec, Freq	Kuhn	JACS	74 (1952)	2492
$C_6H_{14}O_3$	Diethylene glycol monoethyl ether	1000-1775	-	Spec	Barnes	IEC	15 (1943)	659
		3.2-3.6μ	-	Spec, Anal	Saier	AC	20 (1948)	812
		3μ	Sol	H bond, Freq	Flett	SA	10 (1958)	21

$C_6H_{14}O_3$	1,2,6-Hexanetriol	700-1500	L	Spec, Ident	Shay	AC	26 (1954)	652
$C_6H_{14}O_3$	2,2-Hydroxypropoxy-1-propanol	8-10 μ	Sol	Spec, Iso	Sexton	JACS	75 (1953)	4357
$C_6H_{14}O_3$	1,1'-Oxy-di-2-propanol	8-10 μ	Sol	Spec, Iso	Sexton	JACS	75 (1953)	4357
		700-1500	L	Spec, Ident	Shay	AC	26 (1954)	652
$C_6H_{14}O_3$	2,2'-Oxy-di-1-propanol	8-10 μ	Sol	Spec, Iso	Sexton	JACS	75 (1953)	4357
$C_6H_{14}O_3$	Trimethylolpropane	700-1500	S	Spec, Ident	Shay	AC	26 (1954)	652
$C_6H_{14}O_3Si_2$	Bis-methylvinyl-disiloxanediol	-	-	Band freq, Assign	Frisch	JACS	74 (1952)	4584
$C_6H_{14}O_4$	Di-1-hydroxypropyl-1-peroxide	5-15 μ	Sol	Spec	Minkoff	PRS	224 (1954)	176
$C_6H_{14}O_4$	Triethylene glycol	2400-4000	-	Spec, H bond	Barnes	JCP	4 (1936)	722
		700-1500	L	Spec, Ident	Shay	AC	26 (1954)	652
		700-1600	L	Rocking freq, Struct	Kuroda	JPS	26 (1957)	323
$C_6H_{14}O_4S$	Dipropyl sulfate	5-10 μ	-	Spec, Group assign	Klotz	JPCC	52 (1948)	961
$C_6H_{14}O_5$	Fucitol	8-15 μ	S	Spec	Kuhn	AC	22 (1950)	276
$C_6H_{14}O_6$	Dulcitol	8-15 μ	S	Spec	Kuhn	AC	22 (1950)	276
$C_6H_{14}O_6$	Mannitol	8-15 μ	S	Spec	Kuhn	AC	22 (1950)	276
$C_6H_{14}O_6$	Sorbitol	8-15 μ	S	Spec	Kuhn	AC	22 (1950)	276
		700-1500	S	Spec, Ident	Shay	AC	26 (1954)	652
		2.5-3.5 μ	Sol	Group study	Kabasakalian	AC	31 (1959)	375
$C_6H_{14}O_{12}P_2$	Hexose diphosphate	9.5-11 μ	S	Band freq	Schwarz	APS	6 (1952)	15
$C_6H_{14}S$	2,2-Dimethyl-3-thiapentane	200-1500	-	Freq, Assign, Struct	Scott	JACS	80 (1958)	3554

$C_6H_{14}S$	2,4-Dimethyl-3-thiapentane	200-1500	-	Freq, Assign, Struct	Scott	JACS	80	(1958)	3554
$C_6H_{14}S$	Di-n-propyl sulfide	6-2.8 μ	L	Band study	Ellis	JACS	50	(1928)	2113
		500-1500	L	Spec, Assign	Sheppard	TFS	46	(1950)	429
		2800-3000	Sol	Spec, Stretch freq	Pozefsky	AC	23	(1951)	1611
		-	-	Group freq	Brandt	JCS	-	(1952)	2549
$C_6H_{14}S$	Ethyl butyl sulfide	2800-3000	Sol	Spec, Stretch freq	Pozefsky	AC	23	(1951)	1611
		-	-	Group freq	Brandt	JCS	-	(1952)	2549
$C_6H_{14}S$	n-Hexyl mercaptan	2800-3000	Sol	Spec, Stretch freq	Pozefsky	AC	23	(1951)	1611
		3.95 μ	L	Spec	Cairns	JACS	74	(1952)	3982
		-	-	Band freq	Plant	JACS	77	(1955)	1572
$C_6H_{14}S$	2-Methylpentane-2-thiol	-	-	Ident	Moore	JCS	-	(1954)	2089
$C_6H_{14}S_2$	Di-isopropyl dislphide	2.5-15 μ	L	Spec, Ident	Cairns	JACS	74	(1952)	3982
		2000-1500	-	Freq, Assign, Struct	Scott	JACS	80	(1958)	3554
$C_6H_{14}S_2$	Di-n-propyl disulphide	-	-	Freq	Sheppard	TFS	46	(1950)	429
		2800-3000	Sol	Spec, Stretch freq	Pozefsky	AC	23	(1951)	1611
		-	-	Group freq	Brandt	JCS	-	(1952)	2549
$C_6H_{14}S_2$	Hexamethylenedithiol	2400-3900	-	Spec	Marvel	JACS	72	(1950)	2106
$C_6H_{14}Se$	Diisopropylselenide	2-40 μ	-	Assign	Bergson	ARK	13	(1958)	11
$C_6H_{14}Si$	Cyclohexylsilane	2-16 μ	Sol	Freq	Kniseley	SA	15	(1959)	651
$C_6H_{14}Si$	Diethylvinylsilane	2050-2250	Sol	Freq, Struct	Smith	SA	15	(1959)	412
$C_6H_{15}DOSi$	Triethylhydroxysilane-O-d_1	-	-	Spec	Riskin	CCCC	24	(1959)	3816
		700-4000	-	Spec, Freq	Riskin	IANS	-	(1959)	1019
$C_6H_{15}BrS$	Triethylsulfonium bromide	1-3.5 μ	Sol	Solvent effect	Taylor	JCS	121	(1922)	665

$C_6H_{15}BrSi$	Triethylbromosilane	-	-	Spec	Riskin	CCCC	24	(1959)	3816
$C_6H_{15}Br_3NB$	Triethylamine-boron-tribromide	-	Sol	Freq assign	Katritzky	JCS	-	(1959)	2049
$C_6H_{15}ClNOB$	Nitrosyl boron triethyl chloride	-	-	Freq, Spec	Waddington	ZAUA	304	(1960)	185
$C_6H_{15}ClSi$	Triethylchlorosilane	-	-	Spec	Riskin	CCCC	24	(1959)	3816
$C_6H_{15}Cl_3N_3B_3$	B-Trichloro-N-triethylborazole	-	Sol	Spec	Watanabe	SA	16	(1960)	78
$C_6H_{15}FSi$	Triethylfluorosilane	-	-	Spec	Riskin	CCCC	24	(1959)	3816
$C_6H_{15}ISi$	Triethyliodosilane	-	-	Spec	Riskin	CCCC	24	(1959)	3816
$C_6H_{15}N$	Di-isopropylamine	2-15 μ	L	NCA, Freq, Assign	Stewart	JCP	30	(1959)	1259
		3.38-3.60 μ	S	Freq	Wright	JOC	24	(1959)	1362
$C_6H_{15}N$	Di-n-propylamine	1-12 μ	L	Spec	Bell	JACS	49	(1927)	1837
		6-2.4 μ	L	Band study	Ellis	JACS	50	(1928)	685
		-	-	Solvent effect	Gordy	JCP	7	(1939)	93
		2400-3600	-	Spec	Barnes	IEC	15	(1943)	659
		-	Sol	Band freq, Ext coeff, I	Russell	JCS	-	(1955)	483
		2-15 μ	L	Freq assign, NCA	Stewart	JCP	30	(1959)	1259
		3.38-3.66 μ	L	Freq	Wright	JOC	24	(1959)	1362
$C_6H_{15}N$	n-Hexylamine	2-8 μ	Sol	Spec	Nakanishi	BCSJ	30	(1957)	403
		2-15 μ	L	Freq assign, NCA	Stewart	JCP	30	(1959)	1259
$C_6H_{15}N$	Isobutyldimethylamine	2900-3100	Sol	Freq	Hill	JCS	-	(1958)	760
$C_6H_{15}N$	Isohexylamine	5-10 μ	Sol	Spec, Group assign	Klotz	JPCC	52	(1948)	961
$C_6H_{15}N.HCl$	Isohexylamine hydrochloride	5-10 μ	-	Spec, Group assign	Klotz	JPCC	52	(1948)	961
		2-8 μ	Sol	Spec	Nakanishi	BCSJ	30	(1957)	403

$C_6H_{15}N$	Triethylamine	3μ	Sol	Association effect	Baker	JCS	-	(1949)	24
		-	-	Solvent effect	Ard	AC	23	(1951)	133
		600-4000	G	Spec	Heacock	CJC	34	(1956)	1782
		2-8μ	Sol	Spec	Nakanishi	BCSJ	30	(1957)	403
		3.38-3.60μ	S	Freq	Wright	JOC	24	(1959)	1362
$C_6H_{15}N.HBr$	Triethylamine hydrobromide	1000-3500	S,Sol	Freq, Spec	Chenon	CJC	36	(1958)	1181
		2000-4000	S,Sol	H bond	Brisette	CJC	38	(1960)	34
$C_6H_{15}N.HCl$	Triethylamine hydrochloride	-	Sol	Band freq	Barrow	JACS	76	(1954)	5211
		600-4000	Sol	Spec	Heacock	CJC	34	(1956)	1782
		-	Sol	Spec	Nakanishi	BCSJ	30	(1957)	403
		1000-3500	Sol,S	Spec	Chenon	CJC	36	(1958)	1181
		600-4000	Sol,S	Freq, Assign	Stone	JCS	-	(1958)	52
		2000-4000	S,Sol	H bond	Brisette	CJC	38	(1960)	34
$C_6H_{15}N.HI$	Triethylamine hydriodide	1000-3500	S,Sol	Freq, Spec	Chenon	CJC	36	(1958)	1181
		2000-4000	S,Sol	H bond	Brisette	CJC	38	(1960)	34
$C_6H_{15}.HNO_3$	Triethylamine nitrate	-	Sol	Band freq	Barrow	JACS	76	(1954)	5211
$C_6H_{15}NO$	2-Diethylaminoethanol	3μ	Sol	H bond, Freq	Flett	SA	10	(1958)	21
$C_6H_{15}NO$	N,3-Dimethyl-2-aminobutanol-3	-	Sol	H bond, Group freq	Bergmann	JACS	75	(1953)	68
$C_6H_{15}N_3.HCl$	N,N-Diethyl-N'-methylguanidine hydrochloride	800-3500	Sol	Spec	Goto	BCSJ	30	(1957)	723
$C_6H_{15}N_3O$	n-Butylaminoacetamidoxime	930-3500	Sol,S	Freq	Hollander	JOC	23	(1958)	1112
$C_6H_{15}OP$	Triethylphosphine oxide	-	-	Band study	Hooge	RTC	77	(1958)	911
$C_6H_{15}O_2PS$	Diethyl ethylphosphonothionate	740-1500	L	Band assign	McIvor	CJC	37	(1959)	869

$C_6H_{15}O_2PS$	Diethylphosporoethyl thionate	-	-	Spec, Freq	Popkov	ZOK	29 (1959)	1998
$C_6H_{15}O_2PS$	O,O,S-Triethylphophorothioate	-	-	Spec, Freq	Popkov	ZOK	29 (1959)	1998
$C_6H_{15}O_2PS_2$	Diethylthioethyl phosphate	-	-	Band freq	Bell	JACS	76 (1954)	5185
$C_6H_{15}O_2PS_2$	O,O,Di-isopropyl-phosphorodithioic acid	450-550	L	Band assign	McIver	CJC	37 (1959)	869
$C_6H_{15}O_2PS_2$	O,O-Di-n-propyl-phosphorodithioic acid	450-530	L	Band assign	McIver	CJC	37 (1959)	869
$C_6H_{15}O_2PS_2$	O,O,S-Triethylphosphorothionate	-	-	Spec, Freq	Popkov	ZOK	29 (1959)	1998
$C_6H_{15}O_2B^{10}$	Diisopropoxyborane (isotopic)	2-15μ	G	Spec, Assign	Lehmann	JCP	30 (1959)	1226
$C_6H_{15}O_3P$	Diethylethyl phosphonate	2-25μ	L	Spec, Table, Struct	Meyrick	JCS	- (1950)	225
		700-1500	L,Sol	Spec, Group freq	Bellamy	JCS	- (1952)	475
		-	-	Band freq, Shift	Bell	JACS	76 (1954)	5185
		-	-	Band freq	Halmann	JCS	- (1954)	2158
		600-3000	L	Spec, Assign config	Gillis	JACS	80 (1958)	2999
$C_6H_{15}O_3P$	Di-isopropyl ester of phosphorous oxide	-	-	Spec, Freq	Maarsen	RTC	76 (1957)	713
$C_6H_{15}O_3P$	Di-isopropyl phosphonate	2-25μ	L	Spec, Table	Meyrick	JCS	- (1950)	225
		-	-	Band freq, Shift	Bell	JACS	76 (1954)	5185
		-	-	Band freq	Bennett	JCS	- (1954)	3598

$C_6H_{15}O_3P$	Triethyl phosphite	2-25 μ	L	Spec, Table, Struct	Meyrick	JCS	-	(1950)	225
		2-21 μ	L	Spec, Struct anal	Daasch	AC	23	(1951)	853
		700-1500	L,Sol	Spec, Group freq	Bellamy	JCS	-	(1952)	475
		-	-	Band freq	Halmann	JCS	-	(1954)	2158
$C_6H_{15}O_3PS$	Diethylethylthio phosphate	-	-	Band freq	Bell	JACS	76	(1954)	5185
$C_6H_{15}O_3PS$	O,O,S-Triethylphosphorothioate	-	-	Freq, Assign	Ketelaar	RTC	78	(1959)	190
$C_6H_{15}O_3B$	Ethyl borate	3.36-12.37 μ	-	Table	George	JACS	77	(1955)	1900
$C_6H_{15}O_3B$	Treithoxyborane	2-15 μ	G	Spec, Freq assign	Lehmann	JCP	30	(1959)	1222
$C_6H_{15}O_4P$	Di-isopropoxyhypophosphorous acid	600-4000	S	Group study	Braunholtz	JCS	-	(1959)	868
$C_6H_{15}O_4P$	Di-isopropylester of O-phosphonic acid	-	-	Spec, Freq	Maarsen	RTC	76	(1957)	713
$C_6H_{15}O_4P$	Triethyl phosphate	670-1650	L,Sol	Spec, Group freq	Bellamy	JCS	-	(1952)	475
		-	Sol	Group freq	Bergmann	JCS	-	(1952)	847
		900-1060	Sol	Band & Group freq, I	Halmann	JCS	-	(1953)	626
		-	-	Band freq	Bell	JACS	76	(1954)	5185
		1160-2998	Sol	H bond, I	Halpern	JACS	77	(1955)	4472
		450-1600	L,S	Spec, Freq assign, Iso	Mortimer	SA	9	(1957)	270
$C_6H_{15}P$	Triethylphosphine	-	-	Band study	Hooge	RTC	77	(1958)	911
		650-3500	L	Spec, Freq assign	Kaesz	SA	15	(1959)	360
$C_6H_{15}PS_4$	Ethyl isopropyl methyltetrathiophosphate	2-25 μ	-	Spec, Struct	Menefee	JOC	22	(1957)	792
$C_6H_{15}PS_4$	Triethyl phosphorotetrathioate	2-25 μ	-	Spec, Struct	Menefee	JOC	22	(1957)	792
$C_6H_{15}B$	Triethylborane	2-15 μ	G	Freq, Assign	Lehmann	JCP	28	(1958)	781

$C_6H_{15}B^{10}$	Triethylborane (isotopic)	2-15 μ	G	Freq, Assign	Lehmann	JCP	28 (1958)	781
$C_6H_{16}Cl_4NB$	Triethylammonium tetrachloroborate	600-3500	S	Spec	Kynaston	JCS	- (1960)	1772
$C_6H_{16}FINO_2P$	Iodide of methyl-phosphonylcholine	-	-	Spec	Larsson	ACS	12 (1958)	587
$C_6H_{16}F_4NB$	Triethylammonium fluoroborate	-	S	Band freq, H bond	Nuttall	JCS	- (1960)	4965
$C_6H_{16}F_6N_2B_2$	Hexamethylenediamine-2-boron trifluoride complex	2-16 μ	S	Spec	Brown	JACS	76 (1954)	2537
$C_6H_{16}N$	Triethylammonium ion	2-15 μ	S	Assign, Freq	Bellanato	SA	16 (1960	1344
$C_6H_{16}NO_2PS$	Diethyldimethyl-phosphoramidothionate	740-1500	L	Assign	McIvon	CJC	37 (1959)	869
$C_6H_{16}NO_3P$	Diethyldimethyl-phosphoramidate	600-1050	L	Assign	McIvon	CJC	37 (1959)	869
$C_6H_{16}NO_3P$	Di-isopropyl phosphoramidoate	-	-	Spec, Freq	Maarsen	RTC	76 (1957)	713
$C_6H_{16}N_2$	N,N-Diethylethylene-diamine	3-6.5 μ	Sol	Spec	Woodburn	JOC	17 (1952)	1235
$C_6H_{16}N_2$	Hexamethylenediamine	2-5 μ	S	NCA, Freq, Assign	Stewart	JCP	30 (1959)	1259
$C_6H_{16}N_2$	N,N,N',N'-Tetramethyl-ethylenediamine	2900-3100 3.38-3.60 μ	Sol S	Freq Freq	Hill Wright	JCS JOC	- (1958) 24 (1959)	760 1362
$C_6H_{16}OSi$	t-Butyldimethyl silanol	-	-	Ident	Sommer	JACS	76 (1954)	1186

$C_6H_{16}OSi$	Triethylsilanol	2-16 μ	Sol	Spec, Group freq,H bond	Tatlock	JOC	17	(1952)	1555
		-	-	Spec	Riskin	CCCC	24	(1959)	3816
		3300-3700	Sol	H bond	West	JACS	81	(1959)	6145
$C_6H_{16}OSi$	Trimethylsilyl-methyl ethyl ether	-	-	Inductive effect	Josien	COR	249	(1959)	826
$C_6H_{16}OSi$	Trimethylsilyl-ethyl methyl ether	-	-	Inductive effect	Josien	CPR	279	(1959)	826
$C_6H_{16}O_2Si$	Diethyldimethoxy-silane	550-3000	L	Spec, Group assign, Table	Richards	JCS	-	(1949)	124
$C_6H_{16}O_2Si$	Dimethyldiethoxy-silane	700-3000	L	Spec, Group assign, Table	Richards	JCS	-	(1949)	124
		-	L,Sol	Spec, Struct	Hayashi	NKZ	79	(1958)	436
		600-3500	L	Spec	Okawara	BCSJ	31	(1958)	154
$C_6H_{16}O_3Si$	Triethoxysilane	2050-2250	Sol	Freq, Struct	Smith	SA	15	(1959)	412
$C_6H_{16}Si$	Di-isopropylsilane	2-13 μ	Sol	Spec	West	JOC	18	(1953)	303
$C_6H_{16}Si$	Di-n-propylsilane	2-13 μ	Sol	Spec	West	JOC	18	(1953)	303
$C_6H_{16}Si$	n-Hexylsilane	2-16 μ	Sol	Freq, Vib	Kniseley	SA	15	(1959)	651
$C_6H_{16}Si$	Triethylsilane	2-16 μ	L,Sol	Spec, Group freq	Kaye	JOC	18	(1953)	1750
		-	-	Group freq, Thermo	Tannenbaum	JACS	75	(1953)	3753
		2-16 μ	Sol	Freq, Vib	Kniseley	SA	15	(1959)	651
		-	-	Spec	Riskin	CCCC	24	(1959)	3816
		2050-2250	Sol	Freq, Struct	Smith	SA	15	(1959)	412
$C_6H_{17}NO_2Si$	Methyldiethoxysilyl-methylamine	-	-	Absorption study	Noll	JACS	73	(1951)	3871
$C_6H_{18}N_3OP$	Hexamethyl phos-phoramide	-	-	Ident, Anal	Tolkmith	JACS	75	(1953)	5273
		-	-	Ident, Anal	Tolkmith	JACS	75	(1953)	5276

$C_6H_{18}N_3O_6P_3$	Methyl phosphonitrilate (trimer)	2-22 μ	L	Spec, Struct anal	Daasch	AC	23	(1951)	853
		1150-1350	-	Freq, Struct	Shaw	CIL	-	(1959)	54
$C_6H_{18}N_3B_3$	Hexamethylborazole	-	Sol	Struct	Watanabe	SA	16	(1960)	78
$C_6H_{18}OSi_2$	Hexamethyldisiloxane	650-1300	-	Spec	Thompson	JCS	-	(1947)	289
		2.5-14 μ	Sol	Spec	Wright	JACS	69	(1947)	803
		500-1700	L	Spec, Group freq, Table	Richards	JCS	-	(1949)	124
		650-1375	L,G,S	Spec	Simon	JCP	20	(1952)	905
		2-15 μ	-	Spec, Thermo	Thompson	JCS	-	(1953)	1908
		1-24 μ	L	IR	Cerato	JCP	22	(1954)	1
		-	-	Ident	Prober	JACS	77	(1955)	3224
		-	-	Spec, Assign, FC	Kriegsmann	ZE	61	(1957)	1088
		600-3500	L	Spec, Freq	Sakiyama	BCSJ	31	(1958)	67
$C_6H_{18}O_2Si_2$	Ethoxymethylsiloxy-trimethylsilane	2050-2250	Sol	Freq, Struct	Smith	SA	15	(1959)	412
$C_6H_{18}O_3Si_2$	Dimethoxytetramethyl-disiloxane	700-3500	L	Spec, Struct	Tanaka	BCSJ	31	(1958)	762
$C_6H_{18}O_3Si_3$	Hexamethylcyclo-trisiloxane	650-1300	-	Spec	Thompson	JCS	-	(1947)	289
		2.5-14 μ	Sol	Spec	Wright	JACS	69	(1947)	803
		2-16 μ	Sol	Spec	Young	JACS	70	(1948)	3758
		500-1700	S	Spec, Group assign, Table	Richards	JCS	-	(1949)	124
		-	Sol	Assign, Struct	Kriegsmann	ZAUA	298	(1958)	223
		2-16 μ	Sol	Spec, Freq, Struct	Smith	SA	16	(1960)	87
$C_6H_{18}O_5Si_2$	Dimethyltetramethoxy-disiloxane	700-3500	L	Spec, Struct	Tanaka	BCSJ	31	(1958)	762
$C_6H_{18}O_7Si_2$	Hexamethoxydisiloxane	700-3500	L	Spec, Struct	Tanaka	BCSJ	31	(1958)	762
$C_6H_{18}O_9Si_6$	Hexamethylsilses-quioxane	-	S	Group freq	Sprung	JACS	77	(1955)	3990

$C_6H_{18}S_3Si$	Di-trimethylsilyl sulphide	-	-	Spec, Assign, FC	Kriegsmann	ZE	61 (1957)	1088
$C_6H_{18}S_3Si_3$	Hexamethylcyclotri-silthiane	400-3200	S,Sol	Assign, Struct	Kriegsmann	ZAUA	300 (1958)	210
$C_6H_{18}B_2$	Triethyldiborane	1500-2850	-	Freq	Shapiro	JCP	29 (1958)	237
$C_6H_{18}Si_2$	Hexamethyldisilane	1-50 μ	L,Sol	Assign, IR	Cerato	JCP	22 (1954)	1
		-	-	Assign, Struct, FC	Murata	JCP	23 (1955)	1968
$C_6H_{19}NOSi_2$	Aminomethylpenta-methyldisiloxane	2-15 μ	-	Spec	George	JACS	77 (1955)	3493
$C_6H_{19}NSi_2$	Di-trimethylsilylamine	-	-	Spec, Assign	Kriegsmann	ZE	61 (1957)	1088
$C_6H_{19}NSi_2$	Hexamethyldisilazine	1-24 μ	L,Sol	IR	Cerato	JCP	22 (1954)	1
		-	-	Spec, Assign	Goubeau	ZAUA	303 (1960)	217
$C_6H_{20}N_2OSi_2$	Di-dimethyl-d-amino-methylsilicyl oxide	-	-	Absorption study	Noll	JAC	73 (1951)	3871
$C_6H_{20}O_4Si_4$	Hexamethylcyclotetra-siloxane	600-3500	Sol	Spec, Freq	Sakiyama	BCSJ	31 (1958)	67
$C_6H_{21}N_3Si_3$	Hexamethylcyclo-trisilazane	-	G,L, Sol	Assign, Struct	Kriegsmann	ZAUA	298 (1958)	223
$C_6H_{22}O_3Si_4$	Hexamethyltetrasiloxane	600-3500	Sol	Spec, Freq	Sakiyama	BCSJ	31 (1958)	67
$C_6H_{22}O_3Si_4$	Tri-dimethylsiloxysilane	2050-2250	Sol	Freq, Struct	Smith	SA	15 (1959)	412
$C_6H_{24}O_6Si_6$	Hexamethylcyclohexasilo-xane	600-3500	Sol	Spec, Freq	Sakiyama	BCSJ	31 (1958)	67
		2050-2250	Sol	Freq, Struct	Smith	SA	15 (1959)	412
C_6DF_5	Pentafluorobenzene-d_1	300-4000	G,L	Freq	Steel	SA	16 (1960)	368
$C_6D_2Cl_4$	1,2,4,5-Tetrachloro-benzene-d_2	-	-	Spec, Assign	Saeki	CPR	249 (1959)	2307

$C_6D_3Cl_3$	1,3,5-Trichloro-benzene-d_3	-	-	Spec, Assign	Saeki	CPR	249	(1959)	2307
		400-5000	G	Assign	Saeki	BCSJ	33	(1960)	1024
$C_6D_4Cl_2$	p-Dichlorobenzene-d_4	-	-	Spec, Assign	Saeki	CPR	249	(1959)	2307
		400-5000	G	Freq, Assign	Saeki	BCSJ	33	(1960)	1021
$C_6D_4F_2$	1,4-Difluorobenzene -d_4	400-1500	G	I, Dipole moment	Steele	TFS	56	(1960)	177
C_6D_5F	Fluorobenzene-d_5	5000-250	G,L	Assign	Steele	JCP	33	(1960)	1242
C_6D_6	Benzene-d_6	1-13.5μ	G	Spec	Barnes	JCP	3	(1935)	446
		-	L	Spec	Angus	JCS	-	(1936)	925
		-	-	IR, Freq	Angus	JCS	-	(1936)	966
		-	-	Assign	Angus	JCS	-	(1936)	971
		1-22μ	G,L	Spec	Bailey	JCS	-	(1936)	931
		-	-	Iso	Ingold	JCS	-	(1936)	915
		-	-	Spec	Lord	JCS	-	(1937)	1728
		500-1620	S,L	IR, Assign	Ingold	PRS	169	(1938)	149
		-	-	Freq, Struct	Simons	JAP	9	(1938)	781
		-	-	Vib, Product rule	Redlich	JCP	7	(1939)	856
		-	-	Vib anal	Sponer	JCP	7	(1939)	207
		-	-	Thermo, Freq	Pitzer	JACS	65	(1943)	803
		-	-	Product rule	Halverson	JCP	13	(1945)	533
		-	-	Struct anal	Bailey	JCS	-	(1946)	222
		470-520	G	Spec	Bailey	JCS	-	(1946)	252
		-	-	Inactive fundamentals	Herzfeld	JCS	-	(1946)	316
		-	-	Mol anal, Quant mech	Miller	JCP	14	(1946)	282
		-	-	Mol anal	Halverson	RMP	19	(1947)	87
		-	-	Assign, FC	Crawford	JCP	17	(1949)	249
		-	-	Assign	Meir	JCP	17	(1949)	1236
		-	-	Freq, Thermo	Hornig	JACS	72	(1950)	5772
		-	-	I	Crawford	JCP	20	(1952)	977
		-	-	Sum rule	Bernstein	JCP	21	(1953)	2188
		-	-	vib	Duchesne	JCP	21	(1953)	2005
		700-3000	-	Spec	Dixon	JPC	58	(1954)	430
		-	-	Freq	Anderson	JCP	23	(1955)	1047
		300-3700	G,L	Spec, Assign	Miller	JCP	24	(1956)	996
		-	-	Assign	Danti	SA	13	(1958)	180

		-	-	Vib, I	Kakiyuchi	NKZ	80	(1959)	21
		1500-2000	G	I	Dunstan	JCS	-	(1960)	5221
$C_6D_6Cl_6$	α-Benzene hexachloride -d_6	3-15μ	S	Spec, Anal	Trenner	AC	21	(1949)	285
$C_6D_6Cl_6$	β-Benzene hexachloride -d_6	3-15μ	S	Spec, Anal	Trenner	AC	21	(1949)	285
$C_6D_6Cl_6$	γ-Benzene hexachloride -d_6	3-15μ	S	Spec, Anal	Trenner	AC	21	(1949)	285
$C_6D_6N_{10}$	Melem-d_6	2-15μ	S	Assign	Finkelshtein	OS	6	(1959)	33
C_6D_7NOS	N-Methylthiofuramide -d_7	600-1700	Sol,S	Spec, Freq assign	Hadzi	JCS	-	(1957)	847
$C_6D_{10}O_4$	Adipic acid-d_{10}	400-4000	S	Assign, Struct	Susi	SA	15	(1959)	1063
C_6D_{12}	Cyclohexane-d_{12}	-	-	Struct, Assign	Langseth	JCP	8	(1940)	403
		700-330	-	Spec	Dixon	JPC	58	(1954)	430
$C_6D_{15}B$	Triethylborane-d_{15}	2-15μ	G	Freq assign	Lehmann	JCP	31	(1959)	1071
$C_6Br_2F_8$	4,5-Dibromoocta-fluorocyclohex-1-ene	-	Sol	Band freq	Evans	JCS	-	(1954)	3779
$C_6Br_4O_2$	2,3,5,6-Tetrabromo-p-benzoquinone	5-15μ	S,Sol	Table	Yates	JACS	78	(1956)	650
$C_6Cl_2F_{12}$	3,4-Dichlorododeca-fluorohexane	-	-	Ident	Haszeldine	JCS	-	(1953)	1592
$C_6Cl_4N_4$	2,4,6,7-Tetrachloro-pteridine	725-2000	S	Table, I	Mason	JCS	-	(1955)	2336

$C_6Cl_4O_2$	1,2-Dichloro-4-dichloro-methylenecyclopentene -3,5-dione	-	-	Band freq	Mobee	JACS	77	(1955)	4379
$C_6Cl_4O_2$	2,3,5,6-Tetrachloro -p-benzoquinone	-	Sol	Band freq	Josien	JCP	21	(1953)	331
		5-15 μ	S,Sol	Table	Yates	JACS	78	(1956)	650
C_6Cl_6	Hexachlorobenzene	-	-	Mech models	Murray	JCP	3	(1935)	180
		2-38 μ	-	Abstract paper	Plyler	JOSA	40	(1950)	801
		5-6 μ	Sol	Spec	Young	AC	23	(1951)	709
		2-38 μ	L	Spec, Freq	Plyler	JRNB	58	(1957)	255
		650-2250	S,Sol	Freq, Assign	Kopelman	JCP	30	(1959)	597
C_6Cl_8	1,2,3,3,5,5-Hexa-chloro-4-dichloro-methylene cyclo-pentene	-	-	Band freq	Mobee	JACS	77	(1955)	4379
C_6Cl_{10}	1,2,3,3,4,5,5-Hepta-chloro-4-(trichloro-methyl) cyclopentene	-	-	Band freq	Mobee	JACS	77	(1955)	4379
C_6Cl_{10}	Perchloromethylene-cyclopentane	-	-	Band freq	Mobee	JACS	77	(1955)	4379
C_6F_6	Hexafluorobenzene	2-50 μ	G,L	IR, Assign, FC	Delbouille	JCP	25	(1956)	182
		-	-	I	Steele	JCP	29	(1958)	1194
		4000-300	G,L	Spec, Freq, Assign	Steele	TFS	55	(1959)	369
C_6F_8	Octafluorocyclohexa-1,3-diene	-	Sol	Band freq	Evans	JCS	-	(1954)	3779
		-	Sol	Band freq	Evans	JCS	-	(1955)	1184
		1500-1800	G	Stretch freq	Burdon	SA	12	(1958)	139
C_6F_8	Octafluorocyclohexa-1,4-diene	-	Sol	Band freq	Evans	JCS	-	(1954)	3779
		-	-	Band freq	Roylance	JCS	-	(1954)	4426
		-	Sol	Band freq	Evans	JCS	-	(1955)	1184
		1500-1800	G	Stretch freq	Burdon	SA	12	(1958)	139

$C_6F_9O_6B$	Tris-(Trifluoroacetoxy) boron	1500-1800	S	Freq, Assign, Mol bond	Duncanson	JCS	-	(1958)	3652
C_6F_{10}	Decafluorocyclo-hexene	-	-	Band freq	Roylance	JCS	-	(1954)	4426
		1500-1800	G	Stretch freq	Burdon	SA	12	(1958)	139
$C_6F_{10}O_3$	Pentafluoropropionic anhydride	-	-	Band freq	Haszeldine	JCS	-	(1953)	1548
		2-15μ	L	Spec	Husted	JACS	75	(1953)	1605
C_6F_{12}	Dodecafluorocyclo-hexane	500-1500	G	Spec, Assign	Thompson	JCS	-	(1948)	1432
C_6F_{12}	Dodecafluorohex-1-ene	-	-	Band freq	Haszeldine	JCS	-	(1952)	4259
C_6F_{12}	Dodecafluorohex-3-ene	-	-	Ident	Haszeldine	JCS	-	(1953)	1592
		1500-1800	G	Stretch freq	Burdon	SA	12	(1958)	139
$C_6F_{13}N$	Perfluoro-N-methyl-piperidine	2-16μ	L	Spec	Halpern	APS	11	(1957)	173
C_6F_{14}	Tetradecafluoro-hexane	9-13μ	-	Iso	Szasz	JCP	18	(1950)	1417
		4-15μ	L	Table	Kirsheubaum	JACS	75	(1953)	3141
$C_6F_{14}S_2$	Perfluoropropyl disulfide	2-16μ	G	Spec	Hauptschein	JACS	73	(1951)	5461
$C_6F_{14}S_3$	Perfluoropropyl trisulfide	2-16μ	G,L	Spec	Hauptschein	JACS	73	(1951)	5461
$C_6F_{16}NS$	β-Perfluoro-(diethyl-aminoethyl) sulphur hexafluoride	2-15μ	L	Spec	Halpern	APS	11	(1957)	173

C_7HF_{13}	1-CF_3/4H-Tridecafluoromethylcyclohexane/e	2900-3100	G	Absorption freq	Steele	TE	3 (1958)	181
C_7HF_{13}	1-CF_3:4H/-Tridecafluoromethylcyclohexane/e	2900-3100	G	Absorption freq	Steele	TE	3 (1958)	181
C_7HF_{15}	1-Hydroperfluoroheptane	-	-	Bond freq, Pyrolysis study	Lazerte	JACS	75 (1953)	4525
$C_7H_2Br_3N_3$	cis-2,4,6-Tribromobenzenediazo cyanide	2-15μ	Sol	Spec, Bond freq	Sheppard	JCS	- (1947)	453
$C_7H_2Br_3N_3$	trans-2,4,6-Tribromobenzenediazo cyanide	2-15μ	Sol	Spec, Bond freq	Sheppard	JCS	- (1947)	453
$C_7H_2Cl_4O$	2,3,5,7-Tetrachlorotropone	2-16μ	Sol	Spec, Struct	Doering	JACS	74 (1952)	5683
$C_7H_2F_9I$	1,1,1,6,6,6-Hexafluoro-2-iodo-4-trifluoromethylhexa-2,4-diene	-	-	Group freq	Leedlam	JCS	- (1954)	1634
$C_7H_2F_{14}O$	Diheptafluoropropylcarbinol	- -	Sol L	OH freq, H bond Group freq, I	Haszeldine Henne	JCS JACS	- (1953) 75 (1953)	1757 991
$C_7H_3Br_3O_2$	2,5,7-Tribromo-3-hydroxytropone	665-1605	S	Table	Johns	JCS	- (1954)	4605
$C_7H_3Br_3O_2$	3,5,7-Tribromotropolone	2-16μ 600-3400	Sol S,Sol	Spec, Struct Spec, H bond	Doering Kuratani	JACS BCSJ	74 (1952) 25 (1952)	5683 250
$C_7H_3Cl_2N$	2,6-Dichlorobenzonitrile	-	-	Bond freq	Kitson	AC	24 (1952)	334
$C_7H_3Cl_2NO$	2,4-Dichlorobenzonitrile-N-oxide	600-3000	Sol	Spec	Wiley	JOC	25 (1960)	546

$C_7H_3Cl_2NO_2$	3,5-Dichloro-2-hydroxy-benzonitrile-N-oxide	600-3000	Sol	Spec	Wiley	JOC	25 (1960)	546
$C_7H_3Cl_3O_2$	2-Methyl-3,5,6-trichloro-p-benzo-quinone	1700-710	-	Bond freq	Adams	JACS	74 (1952)	2608
$C_7H_3Cl_3O_2$	2,4,5-Trichloro-benzoic acid	700-1400	Sol	Impurity	Whiffen	TFS	41 (1945)	200
$C_7H_3Cl_3O_2$	3,5,7-Trichloro-tropolone	2-16 μ	Sol	Spec, Struct	Doering	JACS	74 (1952)	5683
$C_7H_3Cl_7O_2$	Methyl 2,3,4,4,5,6,6-heptachlorohexa-diene-2,5-oate	2-25 μ	L	Spec, Group freq	Pennino	JOC	20 (1955)	530
$C_7H_3F_3O_4$	2-Furoyl trifluoro-acetate		-	Ident	Emmons	JACS	75 (1953)	6047
		-	-	Bond freq	Fearis	JACS	75 (1953)	232
$C_7H_3F_5$	1-Trifluoromethyl-2,5-difluorobenzene	500-1700	G,L	Spec	Thompson	JCS	- (1948)	1432
		-	-	Bond freq	Randle	JCS	- (1955)	1311
$C_7H_3N_3O_4S$	2,4-Dinitrophenyl thiocyanate	2000-2300	Sol	Freq, Assign	Caldow	SA	13 (1958)	212
$C_7H_3N_3O_8$	2,4,6-Trinitro-benzoic acid	700-4000	S,L	Table, Association	Flett	JCS	- (1951)	962
C_7H_4DClO	p-Chlorobenzaldehyde -d_1	2-15 μ	L,S, Sol	Bond vib	Eggers	AC	28 (1956)	1328
		-	-	CH freq	Pinchas	AC	29 (1957)	334
$C_7H_4D^ClO_2$	p-Chlorobenzoic acid -O-d_1	650-900	L,Sol	CH out of plane	Yoshida	CPBT	8 (1960)	389
$C_7H_4DNS_2$	Mercaptobenzthiazole-d_1	2500-3500	Sol	Spec, Freq	Bellamy	PRS	257 (1960)	98

$C_7H_4D_3NO_2$	Methyl nicotinate-d_3	2-16 μ	Sol	Spec, Anal	Trenner	AC	23 (1951)	487
C_7H_4BrN	m-Bromobenzonitrile	-	L	Substitution effect	Cabana	JPC	64 (1960)	1941
C_7H_4BrN	o-Bromobenzonitrile	-	L	Substituion effect	Cabana	JPC	64 (1960)	1941
C_7H_4BrN	p-Bromobenzonitrile	-	L	Substituion effect	Cabana	JPC	64 (1960)	1941
C_7H_4BrNO	p-Bromophenyl isocyanate	-	Sol	Group freq	Caldow	SA	13 (1958)	212
$C_7H_4BrNO_3$	2-Nitro-5-bromo-benzaldehyde	2750-2890	Sol	Bond freq, H bond	Pinchas	AC	29 (1957)	334
C_7H_4BrNS	p-Bromophenyl isothiocyanate	600-4000	S	Spec	Ham	SA	16 (1960)	279
$C_7H_4BrN_3$	cis-p-Bromophenyl-diazo cyanide	4-14 μ	Sol	Spec, Bond freq	Anderson	JCS	- (1947)	445
		2-15 μ	S	Spec, Table, Freq	Sheppard	JCS	- (1947)	453
$C_7H_4BrN_3$	trans-p-Bromophenyl-diazo cyanide	4-14 μ	Sol	Spec, Bond freq	Anderson	JCS	- (1947)	445
		2-15 μ	S	Spec, Table, Freq	Sheppard	JCS	- (1947)	453
$C_7H_4Br_2O_2$	2,6-Dibromo-4-hydroxy-tropone	724-1626	S	Table	Johns	JCS	- (1955)	309
$C_7H_4Br_2O_2$	1,2-Dibromo-4,5-methylenedioxy-benzene	-	Sol	Group freq	Briggs	AC	29 (1957)	904
$C_7H_4Br_2O_2$	O,O'-Dibromotroplone	600-3400	S,Sol	Spec, H bond	Kuratani	BCSJ	25 (1952)	250
$C_7H_4Br_4O_2$	Tetrabromoguaiacol	6600-7000	Sol	OH band	Wulf	JACS	58 (1936)	2287
		7000	-	Absorption band	Wulf	JCP	6 (1938)	702
$C_7H_4ClF_3$	p-Chlorotrifluoro-methylbenzene	22-39 μ	L	Absorption freq	Plyler	JCP	17 (1949)	218

$C_7H_4ClF_3$	m-Chlorotrifluoro-methylbenzene	3-15 μ	G,L	Spec	Park	JACS	73 (1951)	709
C_7H_4ClN	m-Chlorobenzonitrile	-	Sol	I, CN band, Solvent effect	Mander	TFS	53 (1957)	1402
		-	L	Substitution effect	Cabana	JPC	64 (1960)	1941
C_7H_4ClN	o-Chlorobenzonitrile	-	-	Substitution effect	Cabana	JPC	64 (1960)	1941
C_7H_4ClN	p-Chlorobenzonitrile	-	Sol	Band freq	Flett	TFS	44 (1948)	767
		-	-	Bond freq	Kitson	AC	24 (1952)	334
		-	Sol	Anal	Wiberg	JACS	77 (1955)	2519
		-	Sol	I, CN band	Mander	TFS	53 (1957)	1402
		700-2900	Sol	Spec, Freq	Speroni	JCP	26 (1957)	1777
		-	Sol	I, Activation constant	Brown	JACS	80 (1958)	794
		-	L	Substitution effect	Cabana	JPC	64 (1960)	1941
		-	Sol	Solvent effect, Freq	Gerrard	JCS	- (1960)	2182
C_7H_4ClNO	m-Chlorobenzonitrile-N-oxide	600-3000	Sol	Spec	Wiley	JOC	25 (1960)	546
C_7H_4ClNO	p-Chlorobenzonitrile-N-oxide	700-2900	Sol	Spec, Freq	Speroni	JCP	26 (1957)	1777
		600-3000	Sol	Spec	Wiley	JOC	25 (1960)	546
C_7H_4ClNO	p-Chlorophenyl isocyanate	-	Sol	Freq	Caldow	SA	13 (1958)	212
$C_7H_4ClNO_3$	m-Nitrobenzoyl chloride	-	Sol	Bond freq	Flett	TFS	44 (1948)	767
		700-1700	Sol	I, Variation in position	Katritzky	JCS	- (1959)	2058
$C_7H_4ClNO_3$	p-Nitrobenzoyl chloride	-	Sol	Bond freq	Flett	TFS	44 (1948)	767
$C_7H_4ClNO_4$	2-Chloro-4-nitro-benzoic acid	3-15 μ	S,Sol	Spec	Ebert	JACS	74 (1952)	2806

$C_7H_4ClNO_4S$	p-Carboxy-2-nitrobenzene-sulfenyl chloride	-	-	Bond freq	Havlik	JACS	77 (1955)	1150
$C_7H_4ClNO_6$	4-Chloro-2,3,5-tri-carboxypyrrole	-	S,Sol	Spec	Scrocco	AAN	20 (1956)	795
C_7H_4ClNS	o-Chlorophenyl iso-thiocyanate	600-4000	L	Spec	Ham	SA	16 (1960)	279
C_7H_4ClNS	p-Chlorophenyl iso-thiocyanate	2000-2300	Sol	Spec, Freq	Caldow	SA	13 (1958)	212
		-	Sol	NCS vib freq	Rao	CS	27 (1958)	474
		600-4000	S	Spec	Ham	SA	16 (1960)	279
$C_7H_4ClN_3$	o-Chlorobenzenediazo cyanide	600-1800	S	Spec, Assign	Lefevre	AJC	6 (1953)	341
$C_7H_4ClN_3$	p-Chlorobenzenediazo cyanide	600-1800	S	Spec, Assign	Lefevre	AJC	6 (1953)	341
$C_7H_4ClN_3$	cis-p-Chlorophenyl-diazo cyanide	4-14 μ	Sol	Spec, Bond freq	Anderson	JCS	- (1947)	445
$C_7H_4ClN_3$	trans-p-Chlorophenyl-diazo cyanide	4-14 μ	Sol	Spec, Bond freq	Anderson	JCS	- (1947)	445
$C_7H_4Cl_2O$	p-Chlorobenzoyl chloride	-	Sol	Bond freq	Flett	TFS	44 (1948)	767
		600-950	L,Sol	CH out of phase	Yoshida	CPBT	8 (1960)	389
$C_7H_4Cl_2O$	2,4-Dichloro-benzaldehyde	2.8-12 μ	Sol	CH freq, H bond	Pinchas	AC	29 (1957)	334
$C_7H_4Cl_2O$	2,6-Dichloro-benzaldehyde	-	Sol	Group freq & H bond	Pinchas	AC	27 (1955)	2
$C_7H_4Cl_2O$	3,4-Dichloro-benzaldehyde	-	Sol	Substitution effect, I	Thompson	SA	9 (1957)	208

$C_7H_4Cl_2O_2$	2,4-Dichlorobenzoic acid	700-1400	Sol	Anal	Wiffen	TFS	41 (1945)	200
$C_7H_4Cl_2O_2$	2,2-Dichlorocyclohepta-4,6-diene-1,3-dione	726-1700	S	Struct, Table	Johnson	JCS	- (1955)	1841
$C_7H_4Cl_3N_2O_2B$	p-Nitrobenzonitrile boron trichloride complex	-	Sol	Freq	Gerrard	JCS	- (1960)	2182
$C_7H_4Cl_4NB$	p-Chlorobenzonitrile boron trichloride complex	-	Sol	Freq	Gerrard	JCS	- (1960)	2182
C_7H_4FN	m-Fluorobenzonitrile	-	L	Substitution effect	Cabana	JPC	64 (1960)	1941
C_7H_4FN	o-Fluorobenzonitrile	-	L	Substitution effect	Cabana	JPC	64 (1960)	1941
C_7H_4FN	p-Fluorobenzonitrile	-	Sol	Activity const	Brown	JACS	80 (1958)	794
		-	Sol	Solvent effect	Brown	SA	10 (1958)	149
		-	-	IR, I	Cabana	SA	16 (1960)	335
		-	L	Substitution effect	Cabana	JPC	64 (1960)	1941
$C_7H_4FNO_3$	2-Nitro-5-fluorobenzaldehyde	2.8-12 μ	Sol	Bond freq, H bond	Pinchas	AC	29 (1957)	334
C_7H_4FNS	p-Fluorophenyl isothiocyanate	600-4000	L	Spec	Ham	SA	16 (1960)	279
$C_7H_4F_3NO_2$	m-Nitrotrifluoromethylbenzene	-	-	Spec, Bond freq	Randle	JCS	- (1955)	1311
$C_7H_4F_3NO_2$	o-Nitrotrifluoromethylbenzene	700-1800	L,S	Struct, I	Randle	JCS	- (1952)	4153
		-	-	Spec, Bond freq	Randle	JCS	- (1955)	1311
$C_7H_4F_3NO_2$	p-Nitrotrifluoromethylbenzene	700-1800	L,S	I, Struct	Randle	JCS	- (1952)	4153
		-	-	Spec, Bond freq	Randle	JCS	- (1955)	1311

$C_7H_4F_4$	1-Fluoro-3-trifluoromethylbenzene	500-1700	G,L	Spec	Thompson	JCS	-	(1948)	1432
		-	-	Spec, Band freq	Randle	JCS	-	(1955)	1311
$C_7H_4F_4$	1-Fluoro-4-trifluoromethylbenzene	500-1700	G,L	Spec	Thompson	JCS	-	(1948)	1432
		-	-	Spec, Band freq	Randle	JCS	-	(1955)	1311
$C_7H_4F_{10}$	3,3,4,5,5,6,6,7,7,7-Decafluorohept-1-ene	-	-	Band freq	Lazerte	JACS	77	(1955)	910
$C_7H_4N_2O_2$	m-Nitrobenzonitrile	-	-	Band freq	Kitson	AC	24	(1952)	334
		-	Sol	I, Solvent effect	Mander	TFS	53	(1957)	1402
		700-1700	Sol	I, Position shift	Katritzky	JCS	-	(1959)	2058
		-	L	Substitution effect	Cabana	JPC	64	(1960)	1941
$C_7H_4N_2O_2$	o-Nitrobenzonitrile	-	L	Substitution effect	Cabana	JPC	64	(1960)	1941
$C_7H_4N_2O_2$	p-Nitrobenzonitrile	-	-	Band freq	Flett	TFS	44	(1948)	767
		-	Sol	Band freq	Kitson	AC	24	(1952)	334
		1300-1600	S,Sol	Struct	Kross	JACS	78	(1956)	4225
		-	Sol	I, Solvent effect	Mander	TFS	53	(1957)	1402
		-	Sol	Activity const, I	Brown	JACS	80	(1958)	794
		700-1700	Sol	Freq, Assign, I	Katritzky	JCS	-	(1959)	2051
		-	L	Substitution effect	Cabana	JPC	64	(1960)	1941
		-	Sol	Solvent effect, Ext coeff	Gerrard	JCS	-	(1960)	2182
$C_7H_4N_2O_2S$	p-Nitrophenyl isothiocyanate	2000-2300	Sol	Characteristic freq	Caldow	SA	13	(1958)	212
		-	Sol	NCS vib freq	Rao	CS	27	(1958)	474
$C_7H_4N_2O_2S$	p-Nitrophenyl thiocyanate	2000-2300	Sol	Characteristic freq	Caldow	SA	13	(1958)	212
$C_7H_4N_2O_3$	m-Nitrobenzonitrile-N-oxide	600-3000	Sol	Spec	Wiley	JOC	25	(1960)	546
$C_7H_4N_2O_3$	o-Nitrobenzonitrile-N-oxide	600-3000	Sol	Spec	Wiley	JOC	25	(1960)	546

$C_7H_4N_2O_3$	m-Nitrophenyl isocyanate	-	Sol	Characteristic freq	Caldow	SA	13 (1958)	212
$C_7H_4N_2O_3$	o-Nitrophenyl isocyanate	-	Sol	Characteristic freq	Caldow	SA	13 (1958)	212
$C_7H_4N_2O_3$	p-Nitrophenyl isocyanate	-	Sol	Characteristic freq	Caldow	SA	13 (1958)	212
$C_7H_4N_2O_6$	3,5-Dinitro-benzoic acid	700-1000	S,Sol	Struct	Bellamy	JCS	- (1955)	2818
$C_7H_4N_2O_6$	3,5-Dinitrosali-cylaldehyde	-	-	Spec, Iso	Hoyer	ZE	64 (1960)	958
$C_7H_4N_4O_2$	cis-p-Nitrophenyldiazo cyanide	4-14μ	Sol	Spec, Bond freq	Anderson	JCS	- (1947)	445
$C_7H_4N_4O_2$	trans-p-Nitrophenyldiazo cyanide	4-14μ	Sol	Spec, Bond freq	Anderson	JCS	- (1947)	445
$C_7H_4N_6O_{10}$	2,3,4,5-Tetranitrophenyl methylnitramine	3-15μ	S	Spec, Bond freq	Lothrop	JACS	73 (1951)	3581
$C_7H_4N_6O_{10}$	2,3,4,6-Tetranitro-phenylmethylnitramine	3-15μ	S	Spec, Bond freq	Lothrop	JACS	73 (1951)	3581
$C_7H_4O_6$	Chelidonic acid	-	-	Exchange study	Lord	AC	26 (1954)	429
C_7H_5DO	Benzaldehyde-d_1	-	Sol	Spec, Freq	Wiberg	JACS	76 (1954)	5371
		2-15μ	L,S, Sol	Assign, Group freq	Eggers	AC	28 (1956)	1328
		-	-	Bond freq	Pinchas	AC	29 (1957)	334
$C_7H_5DO_2$	Benzoic acid-O-d_1	2000-3800	Sol	Spec, H bond	Bushwell	JACS	60 (1938)	2239
		2.8-5.2μ	Sol	Spec, H bond	Wall	JACS	61 (1939)	2812
		-	-	Absorption freq, Association	Wall	JCP	7 (1939)	87
		500-1500	S	Spec, Assign	Hadzi	PRS	216 (1953)	247

		-	S	ν_{OH}, ν_{OD}	Bratoz	SA	8	(1956)	249
		1500-700	G	Spec, Freq, Assign	Hadzi	SA	16	(1958)	162
$C_7H_5DO_2$	Benzoic acid- 2-d_1	500-900	Sol	Freq, I	Tiers	JCP	20	(1952)	761
$C_7H_5DO_2$	Benzoic acid- 3-d_1	500-900	Sol	Freq, I	Tiers	JCP	20	(1952)	761
$C_7H_5DO_2$	Benzoic acid- 4-d_1	500-900	Sol	Freq, I	Tiers	JCP	20	(1952)	761
$C_7H_5DO_3$	p-Hydroxybenzoic acid -d_1	650-900	L,Sol	CH out of phase	Yoshida	CPBT	8	(1960)	389
$C_7H_5D_3$	Toluene- d_3	600-4800	G,L	Assign, Productrule	Fuson	SA	16	(1960)	106
$C_7H_5D_3$	Toluene-α-d_3	2.30μ	G,L	Spec, Assign	Wilmshurst	CJC	35	(1957)	911
$C_7H_5D_3O$	Methoxybenzene- d_3	2800-3100	Sol	Assign	Dalton	JCS	-	(1960)	2927
C_7H_5BrO	Benzoyl bromide	-	Sol	Freq	Horak	TEL	3	(1959)	19
C_7H_5BrO	m-Bromobenzaldehyde	2.8-12μ	Sol	Bond freq, H bond	Pinchas	AC	29	(1957)	334
C_7H_5BrO	o-Bromobenzaldehyde	-	Sol	Bond freq, H bond	Pinchas	AC	29	(1957)	334
C_7H_5BrO	2-Bromotropone	2-16μ	Sol	Spec, Struct	Doering	JACS	74	(1952)	5688
$C_7H_5BrO_2$	m-Bromobenzoic acid	-	-	Ident	Hazeldine	JCS	-	(1952)	993
		9.84-14μ	Sol	Quant anal	Jackson	JACS	77	(1955)	5625
$C_7H_5BrO_2$	o-Bromobenzoic acid	9.84-14μ	Sol	Quant anal	Jackson	JACS	77	(1955)	5625
		-	Sol	Chemical shift, H bond	Reeves	CJC	38	(1960)	1259
$C_7H_5BrO_2 \cdot HBr$	3-Bromotropolone hydrobromide	6.28-8.08μ	S	Table	Goldman	JACS	76	(1954)	5789
$C_7H_5BrO_2$	p-Bromobenzoic acid	-	Sol	Freq, Chem properties	Flett	TFS	44	(1948)	767

		9.84-14μ	Sol	Quant anal	Jackson	JACS	77	(1955)	5625
		12-15μ	S	CH out of plase, shift	Kross	JACS	78	(1956)	1332
$C_7H_5BrO_2$	2-Bromo-3-hydroxy-tropone	689-2912	S	Table	Johns	JCS	-	(1954)	4605
$C_7H_5BrO_2$	2-Bromo-6-hydroxy-tropone	651-2632	S	Table	Johns	JCS	-	(1954)	4605
$C_7H_5BrO_2$	5-Bromosalicyl-aldehyde	-	Sol	Chemical shift, H bond	Reeves	CJC	38	(1960)	1249
$C_7H_5BrO_2$	1-Bromotropolone	-	Sol	Band freq	Bryant	JOC	19	(1954)	1889
$C_7H_5BrO_2$	3-Bromotropolone	600-3400	S,Sol	Spec, H bond	Kuratani	BCSJ	25	(1952)	250
		6.24-8μ	S	Table	Goldman	JACS	76	(1954)	5789
$C_7H_5BrO_2$	4-Bromotropolone	600-3400	S,Sol	Spec, H bond	Kuratani	BCSJ	25	(1952)	250
$C_7H_5Br_2NO_2$	4-Nitro-2,6-dibromo-toluene	-	-	Ident	Morton	JACS	77	(1955)	3151
$C_7H_5ClF_6O_2S$	Monoethylthiol-hexafluoroglutaryl chloride	2-16μ	L	Spec, Band freq	Hauptschein	JACS	74	(1952)	4005
$C_7H_5ClN_2O_3$	3-Methoxycarbonyl-pyrazine-2-carbonyl chloride	1500-2000	Sol	Spec, Group freq	Solomons	JACS	75	(1953)	679
$C_7H_5ClN_4S$	5-p-Chlorophenylamino-1,2,3,4-thiatrizole	700-1700	S	Spec, Struct, Freq, Assign	Lieber	CJC	36	(1958)	801
$C_7H_5ClN_4S$	1-p-Chlorophenyl-tetrazoline-5-thione	700-1700	S	Spec, Struct, Freq, Assign	Lieber	CJC	36	(1958)	801
C_7H_5ClO	Benzoyl chloride	2000-3800	Sol	Spec, H bond	Bauman	JOC	19	(1954)	709
		1050-1850	-	Spec	Barnes	JBC	17	(1944)	707

C_7H_5ClO	Benzoyl chloride	2000-3800	Sol	Spec, H bond	Bushwell	JACS	60	(1938)	2239
		1050-1850	-	Spec	Barnes	IEC	15	(1943)	709
		-	-	FC	Linnett	TFS	41	(1945)	223
		-	Sol	Bond freq	Flett	JCS	-	(1948)	1441
		-	Sol	Freq, Chem prop	Flett	TFS	44	(1948)	767
		2-15μ	-	Absorption freq,	Rasmussen	JACS	71	(1949)	1073
		650-1740	-	IR freq shift	Bellamy	JCS	-	(1955)	4221
		625-900	-	Substitution effect	Margoshes	SA	7	(1955)	14
		12-15μ	L	CH out of phane	Kross	JACS	78	(1956)	1332
		-	Sol	Freq	Horak	TEL	3	(1959)	19
		650-900	L,Sol	CH out of plane	Yoshida	CPBT	8	(1960)	389
C_7H_5ClO	m-Chlorobenzaldehyde	2.8-12μ	Sol	Bond freq, H bond	Pinchas	AC	29	(1957)	334
		2-15μ	Sol	Spec, Assign	Padhye	JSIR	19	(1960)	45
C_7H_5ClO	o-Chlorobenzaldehyde	-	Sol	Group & Bond freq, Ext coeff	Pinchas	AC	27	(1955)	2
		-	Sol	Bond freq, H bond	Pinchas	AC	29	(1957)	334
		800-1600	-	Position & I of bands	Katritzky	JCS	-	(1959)	3670
		2-15μ	Sol	Spec, Assign	Padhye	JSIR	19	(1960)	45
C_7H_5ClO	p-Chlorobenzaldehyde	700-1000	S,Sol	CH out of phase	Bellamy	JCS	-	(1955)	2818
		2-15μ	L,Sol	Bond freq	Eggers	AC	28	(1956)	1328
		2.8-12μ	Sol	Bond freq, H bond	Pinchas	AC	29	(1957)	334
		-	Sol	Freq, I	Thompson	SA	9	(1957)	208
		2-15μ	Sol	Spec, Assign	Padhye	JSIR	19	(1960)	45
C_7H_5ClO	2-Chlorotropone	2-16μ	Sol	Spec, Struct	Doering	JACS	74	(1952)	5688
		-	Sol	Band freq	Bryant	JOC	19	(1954)	1889
C_7H_5ClOS	o-Chlorothiobenzoic acid	2.5-16μ	Sol	Struct	Nyguist	SA	15	(1959)	514
$C_7H_5ClO_2$	m-Chlorobenzoic acid	1700	Sol	Bond freq	Flett	TFS	44	(1948)	767
		-	Sol	Dissociation const	Goulden	SA	6	(1954	129
		-	Sol	FC Peak value	Bavin	CJC	35	(1957)	1555

$C_7H_5ClO_2$	o-Chlorobenzoic acid	700-4000	L,S, Sol	Table, Ext coeff	Flett	JCS	- (1951)	962
$C_7H_5ClO_2$	p-Chlorobenzoic acid	700-1400	Sol	Impurity studies	Whiffen	TFS	41 (1945)	200
		1700-3500	Sol	Bond freq	Flett	TFS	44 (1948)	767
		700-4000	S,Sol	Table, Ext coeff	Flett	JCS	- (1951)	962
		-	Sol	Dissociation const	Goulden	SA	6 (1954)	129
		12-15μ	S	CH out of phase	Kross	JACS	78 (1956)	1332
		650-900	L,Sol	CH out of phase	Yoshida	CPBT	8 (1960)	389
$C_7H_5ClO_2$	2-Chloro-3-hydroxy-benzaldehyde	-	Sol	Bond freq, H bond	Pinchas	AC	29 (1957)	334
$C_7H_5ClO_2$	2-Chloro-5-hydroxy-benzaldehyde	-	Sol	Bond freq, H bond	Pinchas	AC	29 (1957)	334
		-	Sol	Anal	Powers	AC	32 (1960)	1287
$C_7H_5ClO_2$	5-Chlorosalicylal-dehyde	-	Sol	Band freq	Bellamy	JCS	- (1954)	4487
$C_7H_5Cl_3$	Benzotrichloride	625-900	-	Substitution effect	Margoshes	SA	7 (1955)	14
$C_7H_5Cl_3NB$	Benzonitrile boron trichloride complex	-	Sol	Freq	Gerrard	JCS	- (1960)	2182
$C_7H_5Cl_3O_2$	2-Methyl-3,5,6-Trichloro-hydroquinone	3370-860	-	Band freq	Adams	JACS	74 (1952)	2608
$C_7H_5FO_2$	m-Fluorobenzoic acid	-	Sol	Spec, FC	Forbers	CJC	38 (1960)	728
$C_7H_5FO_2$	o-Fluorobenzoic acid	-	Sol	Spec, FC	Forbers	CJC	38 (1960)	728
$C_7H_5FO_2$	p-Fluorobenzoic acid	-	Sol	Spec, FC	Forbers	CJC	38 (1960)	728

$C_7H_5F_3$	Benzotrifluoride	500-1700	G,L	Spec	Thompson	JCS	-	(1948)	1432
		-	-	Symmetry studies	Randle	JCS	-	(1955)	1311
		300-5000	G	Spec, Assign	Narasimhan	JCP	27	(1957)	740
$C_7H_5F_3N_2O_2$	2-Nitro-3-trifluoromethylaniline	700-1800	L,S	Struct, I	Randle	JCS	-	(1952)	4153
		-	-	Symmetry studies	Randle	JCS	-	(1955)	1311
$C_7H_5F_3N_2O_2$	4-Nitro-2-trifluoromethylaniline	700-1800	L,S	Struct, I	Randle	JCS	-	(1952)	4153
		-	-	Symmetry studies	Randle	JCS	-	(1955)	1311
		-							
$C_7H_5F_3N_2O_2$	4-Nitro-3-trifluoromethylaniline	700-1800	L,S	Struct, I	Randle	JCS	-	(1952)	4153
		-	-	Symmetry studies	Randle	JCS	-	(1955)	1311
$C_7H_5F_7O_2$	1,1,1,2,2,3,3-Heptafluoro-4,6-heptanedione	-	-	Band freq, H bond	Park	JACS	75	(1953)	4753
$C_7H_5F_9$	1,1,1,6,6,6-Hexafluoro-4-trifluoromethyl-2-hexene	-	-	Group freq	Haszeldine	JCS	-	(1952)	2504
C_7H_5IO	m-Iodobenzaldehyde	2.8-12μ	Sol	Bond freq, H bond	Pinchas	AC	29	(1957)	334
C_7H_5IO	2-Iodotropone	2-16μ	Sol	Spec, Struct	Doering	JACS	74	(1952)	5688
$C_7H_5IO_2$	3-Hydroxy-2-iodotropone	684-1637	S	Table	Johnson	JCS	-	(1955)	1841
$C_7H_5IO_2$	m-Iodobenzoic acid	665-1755	S,Sol	I, Assign	Bell	JCS	-	(1960)	1209
$C_7H_5IO_2$	o-Iodobenzoic acid	665-1755	S,Sol	I, Assign	Bell	JCS	-	(1960)	1209
$C_7H_5IO_3$	m-Iodoxybenzoic acid	665-1755	S,Sol	I, Assign	Bell	JCS	-	(1960)	1209
$C_7H_5IO_3$	o-Iodoxybenzoic acid	665-1755	S,Sol	I,Assign	Bell	JCS	-	(1960)	1209
C_7H_5	Benzonitrile	1-12μ	L	Spec	Bell	JACS	57	(1935)	1023
		1-6.5μ	L	Spec	Gordy	JCP	4	(1936)	85
		1150-1700	-	Spec	Barnes	IEC	15	(1943)	659
		-	-	FC	Linnett	TFS	41	(1945)	223

		5-8 μ	-	C_6H_6 derivatives	Depaigne	JPR	7	(1946)	33
		4-14 μ	Sol	Spec, Band freq	Anderson	JCS	-	(1947)	445
		-	Sol	Bond freq	Flett	TFS	44	(1948)	767
		-	-	Assign	Hirt	JCP	16	(1948)	480
		-	Sol	Ext coeff	Cross	TFS	47	(1951)	354
		-	-	Band freq	Griffith	AC	23	(1951)	678
		-	-	Band freq	Kitson	AC	24	(1952)	334
		-	-	Ident	Vanmeter	AC	24	(1952)	1758
		-	-	Struct	Garg	JCP	21	(1953)	1907
		-	G	Micro spec	Erlandsson	JCP	22	(1954)	1152
		-	G	Micro spec, Struct	Lide	JCP	22	(1954)	1577
		625-900	-	CH out of phase	Margoshes	SA	7	(1955)	14
		-	-	Micro spec, Dispersion	Poley	JCP	23	(1955)	405
		-	Sol	Freq, I, Ext coeff	Skimrear	JCS	-	(1955)	487
		1650-2000	-	Assign, CH bending vib	Whiffen	SA	7	(1955)	253
		12-15 μ	L,Sol	CH out of phase	Kross	JACS	78	(1956)	1332
		-	-	I, Band freq	Thompson	TFS	52	(1956)	1451
		-	Sol	I, Solvent effect	Mander	TFS	53	(1957)	1402
		-	-	FC	Rao	CS	26	(1957)	375
		-	Sol	I, Activity const	Brown	JACS	80	(1958)	794
		4000-600	Sol	Group freq, Substitution effect	Katritzky	JCS	-	(1958)	4155
		-	Sol	Solvent effect	Bayliss	SA	15	(1959)	12
		-	Sol,L	Freq, I	Foffani	NC	13	(1959)	213
		-	-	Spec, Assign	Bak	ZE	64	(1960)	560
		-	L	Substitution effect	Cabana	JPC	64	(1960)	1941
		-	Sol	Solvent effect, Ext coeff	Gerrard	JCS	-	(1960)	2182
C_7H_5N	Phenyl isocyanide	1.0-6.5 μ	L	Spec	Gordy	JCP	7	(1936)	85
C_7H_5NO	Benzonitrile-N-oxide	600-3000	Sol	Spec	Wiley	JOC	25	(1960)	546
C_7H_5NO	Benzoxazole	800-1725	Sol	Freq	O'Sullivan	JCS	-	(1960)	3278

C_7H_5NO	m-Hydroxybenzonitrile	-	Sol	I, Solvent effect	Mander	TFS	53 (1957)	1402
		-	L	Substitution effect	Cabana	JPC	64 (1960)	1941
C_7H_5NO	o-Hydroxybenzonitrile	6800-7200	Sol	Spec, H bond	Hendricks	JACS	58 (1936)	1991
		3μ	Sol	Freq , H band	Flett	SA	10 (1958)	21
		-	L	Substitution effect	Cabana	JPC	64 (1960)	1941
		3500-3800	Sol	Hammett const	Puttnam	JCS	- (1960)	5100
C_7H_5NO	p-Hydroxybenzonitrile	-	Sol	Dissociation const	Goulden	SA	6 (1954)	129
		-	Sol	I, Solvent effect	Mander	TFS	53 (1957)	1402
		-	Sol	Substitution effect	Stone	SA	10 (1958)	17
		-	L	Substitution effect	Cabana	JPC	64 (1960)	1941
		3500-3800	Sol	Hammett const, Freq	Puttnam	JCS	- (1960)	5100
C_7H_5NO	Phenyl isocyanate	1050-1800	Sol	Spec	Barnes	IEC	15 (1943)	659
		-	Sol	Band freq, I	Davison	JCS	- (1953)	3712
		4-7.5μ	G,L	Assign, Freq	Barr	JCS	- (1956)	3428
		-	Sol	Ring substitution	Caldow	SA	13 (1958)	212
C_7H_5NOS	2-Benzoxazolethiol	2800-3500	S,Sol	Spec, Group, Freq, Struct	Flett	JCS	- (1953)	347
C_7H_5NOS	p-Hydroxyphenyl thiocyanate	2000-2300	Sol	Freq, Ring substitution	Caldow	SA	13 (1958)	212
$C_7H_5NO_2$	Benzoxazolone	650-1000	-	Freq	Binder	JACS	81 (1959)	3608
		600-1700	S	Freq	O'Sullivan	JCS	- (1960)	3278
$C_7H_5NO_2$	2,6-Pyridinedicarboxaldehyde	650-4000	Sol,L	Spec, Freq, H band	Heinert	JACS	81 (1959)	3933
$C_7H_5NO_3$	m-Nitrobenzaldehyde	-	Sol	Group & Band freq, Ext coeff	Pinchas	AC	27 (1955)	2
		700-1700	Sol	I, Substitution effect	Katritzky	JCS	- (1959)	2058
		-	Sol	Freq , Pinchas effect	West	CIL	- (1959)	333
		-	Sol	Anal	Powers	AC	32 (1960)	1287

$C_7H_5NO_3$	o-Nitrobenzaldehyde	-	-	Spec	Bellamy	JAC	3	(1953)	421
		-	Sol	Group & Band freq, Ext coeff	Pinchas	AC	27	(1955)	2
		-	Sol	Bond freq, H bond	Pinchas	AC	89	(1957)	334
		6-8 μ	Sol	I, Freq	Conduit	JCS	-	(1959)	3273
		800-1600	-	I, Ext coeff	Katritzky	JCS	-	(1959)	3670
		-	Sol	Freq , Pinchas effect	West	CIL	-	(1959)	333
		-	Sol	Anal	Powers	AC	32	(1960)	1287
$C_7H_5NO_3$	p-Nitrobenzaldehyde	700-1000	Sol	CH out of phase	Bellamy	JCS	-	(1955)	2818
		-	Sol	Group & Band freq, Ext coeff	Pinchas	AC	27	(1955)	2
		1300-1600	S,Sol	Struct	Kross	JACS	78	(1956)	4224
		-	Sol	Freq, I	Thompson	SA	9	(1957)	208
		6-8 μ	Sol	Freq, I	Conduit	JCS	-	(1959)	3273
		700-1700	Sol	Freq, Assign	Katritzky	JCS	-	(1959)	2051
		-	Sol	Freq , Pinchas effect	West	CIL	-	(1959)	333
		-	Sol	Anal	Powers	AC	32	(1960)	1287
$C_7H_5NO_3S$	o-Benzoic sulfimide	-	S,Sol	Group freq	Baxter	JCS	-	(1955)	669
		650-1000	-	Freq	Binder	JACS	81	(1959)	3608
$C_7H_5NO_3S$	Dihydrobenzo(d)isothiazole-1,1-dioxide	600-1700	S	Freq	O'Sullivan	JCS	-	(1960)	1841
$C_7H_5NO_4$	3-Hydroxy-2-nitrotropone	651-1645	S	Table	Johnson	JCS	-	(1955)	1841
$C_7H_5NO_4$	m-Nitrobenzoic acid	1700-3500	Sol	Bond freq	Flett	TFS	44	(1948)	767
		700-4000	S,L, Sol	Table, Ext coeff	Flett	JCS	-	(1951)	962
		-	Sol	Dissociation const	Goulden	SA	6	(1954)	129
		-	Sol	Freq	Bavin	CJC	35	(1957)	1555
		1300-3500	-	Shift, H band	Jones	CIL	-	(1959)	880
$C_7H_5NO_4$	o-Nitrobenzoic acid	700-1700	S,L,Sol	Table, Bond freq	Flett	JCS	-	(1951)	962
		1300-3500	-	Shift, H bond	Jones	CIL	-	(1959)	880

$C_7H_5NO_4$	p-Nitrobenzoic acid	-	Sol	Bond freq	Flett	TFS	44	(1948)	767
		700-1700	S,L	Table, Ext coeff	Flett	JCS	-	(1951)	962
		-	Sol	Dissociation const	Goulden	SA	6	(1954)	129
		12-15μ	L	CH out of phase	Kross	JACS	78	(1956)	1332
		1300-1600	S,Sol	Struct	Kross	JACS	78	(1956)	4225
		-	Sol	Freq	Bavin	CJC	35	(1957)	1555
		1300-3500	-	Shift, H bond	Jones	CIL	-	(1959)	880
$C_7H_5NO_4$	2-Nitro-3-hydroxy-benzaldehyde	3.06-6.88μ	Sol	Group & Band freq, I	Ek	JACS	76	(1954)	5579
$C_7H_5NO_4$	5-Nitrosalicylaldehyde	-	Sol,L	Shift, H bond, Freq	Reeves	CJC	38	(1960)	1249
$C_7H_5NO_4$	Pyridine-2,3-dicarbox-ylic acid	-	S	Bond freq	Witkop	JACS	75	(1953)	2572
$C_7H_5NO_4$	Pyridine-3,5-dicarboxylic acid	-	-	Ident	Eliel	JACS	75	(1953)	4291
$C_7H_5NO_5$	2-Nitro-3-hydroxybenzoic acid	-	-	Group & Band freq, I	Ek	JACS	76	(1954)	5579
$C_7H_5NO_6$	2,3,4-Tricarboxypyrrole	-	S,Sol	Spec	Scrocco	AAN	20	(1956)	795
$C_7H_5NO_6$	2,3,5-Tricarboxypyrrole	-	S,Sol	Spec	Scrocco	AAN	20	(1956)	795
C_7H_5NS	Phenyl isothiocyanate	1.0-6.5μ	L	Spec	Gordy	JCP	4	(1936)	85
		4.8-15μ	L,Sol	Struct anal	Williams	JCP	8	(1940)	513
		2000-2300	Sol	Spec, Freq	Caldow	SA	13	(1958)	212
		-	Sol	Vib freq	Rao	CS	27	(1958)	474
		600-2200	-	Characteristic freq	Lieber	SA	13	(1959)	296
		400-4000	G,L	Spec, Freq, Assign	Ham	SA	16	(1960)	279
C_7H_5NS	Phenyl thiocyanate	750-4000	Sol	Spec	Ham	SA	16	(1960)	393

$C_7H_5NS_2$	2-Mercaptobenzothiazole	2800-3500	S,Sol	Spec, Struct	Flett	JCS	-	(1953)	347
		2500-3500	Sol	Spec, Freq	Bellamy	PRS	A 257	(1960)	98
$C_7H_5N_3O$	4-Hydroxy-1,3,5-triazanaphthalene	3650-1400	Sol	taut, Spec, Assign	Mason	JCS	-	(1957)	4874
$C_7H_5N_3O$	5-Hydroxy-1,4,6-triazanaphthalene	3650-1400	Sol	taut, Spec, Assign	Mason	JCS	-	(1957)	4874
$C_7H_5N_3O$	8-Hydroxy-1,4,5-triazanaphthalene	3650-1400	Sol	taut, Spec, Assign	Mason	JCS	-	(1957)	4874
$C_7H_5N_3O_2$	5-Nitrobenzimidazole	650-1000	-	Freq	Binder	JACS	81	(1959)	3608
		600-1700	S	Freq	O'Sullivan	JCS	-	(1960)	3278
$C_7H_5N_3O_2$	5-Nitroindazole	600-1700	S	Freq	O'Sullivan	JCS	-	(1960)	3278
		650-1000	-	Freq	O'Sullivan	SA	16	(1960)	762
$C_7H_5N_3O_2$	6-Nitroindazole	600-1700	S	Freq	O'Sullivan	JCS	-	(1960)	3278
		650-1000	-	Freq	O'Sullivan	SA	16	(1960)	762
$C_7H_5N_3O_2$	5,4-Pyridyl-1,3,4-oxadiazol-2(3H)-one	2.5-14.5μ	-	Spec, Ident	Yale	JACS	76	(1954)	2208
$C_7H_5N_3O_2S$	3-Nitro-4-aminophenyl thiocyanate	2000-2300	Sol	Freq, Substitution	Caldow	SA	13	(1958)	212
$C_7H_5N_3O_6$	2,3,4-Trinitrotoluene	2-15μ	Sol	Spec, Anal	Pristera	APS	7	(1953)	115
		6-8μ	Sol	Freq, I	Conduit	JCS	-	(1959)	3273
$C_7H_5N_3O_6$	2,3,5-Trinitrotoluene	6-8μ	Sol	Freq, I	Conduit	JCS	-	(1959)	3273
$C_7H_5N_3O_6$	2,3,6-Trinitrotoluene	6-8μ	Sol	Freq, I	Conduit	JCS	-	(1959)	3273
$C_7H_5N_3O_6$	2,4,5-Trinitrotoluene	2-15μ	Sol	Spec, Anal	Pristera	APS	7	(1953)	115
		6-8μ	Sol	Freq, I	Conduit	JCS	-	(1958)	3273

$C_7H_5N_3O_6$	2,4,6-Trinitrotoluene	750-1950	-	Spec	Barnes	IEC	15	(1943)	659
		2-15μ	Sol	Spec, Anal	Pristera	APS	7	(1953)	115
		6-8μ	Sol	Freq, I	Conduit	JCS	-	(1959)	3273
$C_7H_5N_5O_8$	2,3,6-Trinitrophenyl-methylnitramine	3-15μ	S	Spec, CH band freq	Lothrop	JACS	73	(1951)	3581
$C_7H_6DNO_2$	p-Aminobenzoic acid -O-d_1	650-900	L,Sol	CH out of phase	Yoshida	CPBT	8	(1960)	389
$C_7H_6DNO_2$	N-Phenylhydroxamic acid-d_1	700-4000	S,Sol	Spec, H bond	Hadzi	SA	10	(1958)	38
$C_7H_6D_3N$	N-Methylaniline-d_3	2800-3100	Sol	Assign	Dalton	JCS	-	(1960)	2927
$C_7H_6D_8O_2$	2,3,4,4,5,6,7,7-Enanthic acid-d_8	-	-	Spec	Buuhoi	BSCF	-	(1960)	1586
$C_7H_6BrNO_2$	p-Nitrobenzyl bromide	1300-1600	S,Sol	Assign, Struct	Kross	JACS	78	(1956)	4225
$C_7H_6Br_2$	2,5-Dibromotoluene	5-6μ	-	Spec	Young	AC	23	(1951)	709
$C_7H_6Br_2O$	2,6-Dibromo-4-methyl-phenol	3500-3800	Sol	Hammett const, FC	Puttnam	JCS	-	(1960)	5100
C_7H_6ClNO	p-Aminobenzoyl chloride	650-900	Sol,L	CH out of phase	Yoshida	CPBT	8	(1960)	389
$C_7H_6ClNO_2$	m-Nitrobenzyl chloride	700-1700	Sol	I, Substitution effect	Katritzky	JCS	-	(1959)	2058
$C_7H_6ClNO_2$	p-Nitrobenzyl chloride	1300-1600	S,Sol	Assign, Struct	Kross	JACS	78	(1956)	4225
		650-4000	S	Chemical kinitics	Chatten	APS	11	(1957)	177
		700-1700	Sol	Freq, Assign	Katritzky	JCS	-	(1959)	2051
$C_7H_6ClNO_3$	2-α-Chloromethyl-4-nitrophenol	2.7-3.0μ	Sol	H bond	Baker	JACS	80	(1958)	5358

$C_7H_6ClNO_4S$	4-Methylsulfonyl-1-chloro-2-nitrobenzene	-	-	Spec	Merian	HCA	43 (1960)	1122
$C_7H_6ClN_5$	1-m-Chlorophenyl-5-aminotetrazole	2-6.6 μ	S	Band freq	Murphy	JOC	19 (1954)	1807
$C_7H_6ClN_5$	1-p-Chlorophenyl-5-aminotetrazole	2-6.6 μ	S	Band freq	Murphy	JOC	19 (1954)	1807
$C_7H_6Cl_2$	p-Chloro-α-chlorotoluene	2-15 μ	L,Sol	Spec, Anal	Freeman	AC	29 (1957)	63
$C_7H_6Cl_2$	1,6-Dichloro-2,4-heptadiyne	-	L,Sol	I, Group freq	Allan	JCS	- (1955)	1874
$C_7H_6Cl_2$	α,α-Dichlorotoluene	2-15 μ	L,Sol	Spec, Anal	Freeman	AC	29 (1957)	63
$C_7H_6Cl_2$	α,2-Dichlorotoluene	2-15 μ	L,Sol	Spec, Anal	Freeman	AC	29 (1957)	63
$C_7H_6Cl_2$	2,4-Dichlorotoluene	- 600-1800	Sol L	Anal Spec	Kovacic Deb	JACS IJP	76 (1954) 34 (1960)	5491 554
$C_7H_6Cl_2$	3,4-Dichlorotoluene	600-1800	L	Spec	Deb	IJP	34 (1960)	554
$C_7H_6F_2$	2,4-Difluorotoluene	500-1200 9-14 μ	L Sol	Spec Freq, I, Dipole moment	Thompson Cole	JCS TFS	- (1948) 46 (1950)	1432 103
$C_7H_6F_3N$	m-Trifluoromethylaniline	- 2600-800 -	Sol Sol -	Freq, FC NH band freq, Struct Absorption, Assign, Struct	Krueger Whetsel Katritzky	PRS AC JCS	243 (1957) 30 (1958) - (1959)	143 1598 3674
$C_7H_6F_6O_3S$	Ethylthio hexafluoroglutarate	2-16 μ	L	Spec, Band freq	Hauptschein	JACS	74 (1952)	4005

$C_7H_6F_9I$	1,1,1,4,4,4-Hexafluoro-2'-(3',3',3' trifluoro 2'-iodopropyl)butane	-	-	Struct	Haszeldine	JCS	-	(1952)	2504
$C_7H_6N_2$	o-Aminobenzonitrile	-	-	Substitution effect	Cabana	JPC	64	(1960)	1941
$C_7H_6N_2$	p-Aminobenzonitrile	3427-3518	Sol	Band freq, Chem properties	Flett	TFS	44	(1948)	767
		-	-	Bond freq	Kitson	AC	24	(1952)	334
		-	Sol	Freq, FC	Krueger	PRS	243	(1957)	143
		-	Sol	I	Brown	JACS	80	(1958)	794
		2600-2800	Sol	Band freq, Struct	Whtsel	AC	30	(1958)	1598
		700-1700	Sol	Freq, Assign	Katritzky	JCS	-	(1959)	2051
		-	-	Freq, Struct	Katritzky	JCS	-	(1959)	3674
		-	L	Substitution effect	Cabana	JPC	64	(1960)	1941
$C_7H_6N_2$	m-Cyanoaniline	-	Sol	Freq, FC	Krueger	PRS	243	(1957)	143
		-	Sol	Freq	Bryson	JACS	82	(1960)	4858
		-	L	Substitution effect	Cabana	JPC	64	(1960)	1941
$C_7H_6N_2$	Indazole	650-1000	-	Freq	O'Sullivan	SA	16	(1960)	762
$C_7H_6N_2O$	2-Hydroxybenziminazole	-	S,Sol	FC, Taut	Mason	JCS	-	(1957)	4874
$C_7H_6N_2O$	Indazole-3-one	600-1700	S	Freq	O'Sullivan	JCS	-	(1960)	3278
		650-1000	-	Freq	O'Sullivan	SA	16	(1960)	762
$C_7H_6N_2O$	5-Methylbenzfurazan	6-7μ	-	Spec, Freq	Gaughran	JACS	76	(1954)	2233
$C_7H_6N_2O_2$	5-Methoxybenzfurazan	6-7μ	-	Spec, Freq	Gaughran	JACS	76	(1954)	2233
$C_7H_6N_2O_2$	5-Methylbenzfuroxan	6-7μ	-	Spec, Freq	Gaughran	JACS	76	(1954)	2233
$C_7H_6N_2O_3$	5-Methoxybenzfuroxan	6-7μ	-	Spec, Freq	Gaughran	JACS	76	(1954)	2233
$C_7H_6N_2O_3$	m-Nitrobenzamide	1300-1500	-	Shift, Stretching freq	Jones	CIL	-	(1959)	880
$C_7H_6N_2O_3$	o-Nitrobenzamide	1300-3500	-	Shift, Stretching freq	Jones	CIL	-	(1959)	880
$C_7H_6N_2O_3$	p-Nitrobenzamide	1300-3500	-	Shift, Stretching freq	Jones	CIL	-	(1959)	880

$C_7H_6N_2O_4$	2-Carboxy-3-methyl-carboxypyrazine	1500-2000	S	Spec, Group freq	Solomons	JACS	75	(1953)	679
		-	Sol	Spec	Yoshida	CPBT	7	(1959)	162
$C_7H_6N_2O_4$	2,3-Dinitrotoluene	6-8 μ	Sol	Freq, I	Conduit	JCS	-	(1959)	3273
$C_7H_6N_2O_4$	2,4-Dinitrotoluene	2-15 μ	-	Spec, Anal	Pristera	AC	25	(1953)	844
		2-15 μ	Sol	Spec, Anal, Group freq	Pristera	APS	7	(1953)	115
		2-15 μ	Sol	Spec, Anal	Pristera	AC	27	(1955)	217
		6-8 μ	Sol	Freq, I	Conduit	JCS	-	(1959)	3273
$C_7H_6N_2O_4$	2,5-Dinitrotoluene	6-8 μ	Sol	Freq, I	Conduit	JCS	-	(1959)	3273
$C_7H_6N_2O_4$	2,6-Dinitrotoluene	2-15 μ	Sol	Spec, Anal	Pristera	AC	27	(1955)	217
		6-8 μ	Sol	Freq, I	Conduit	JCS	-	(1959)	3273
$C_7H_6N_2O_4$	3,4-Dinitrotoluene	6-8 μ	Sol	Freq, I	Conduit	JCS	-	(1959)	3273
$C_7H_6N_2O_4$	3,5-Dinitrotoluene	700-1000	S,Sol	Bending freq	Bellamy	JCS	-	(1955)	2818
		6-8 μ	Sol	Freq, I	Conduit	JCS	-	(1959)	3273
$C_7H_6N_2O_5$	1-Methyl-4,6-dinitro-phenol	300-3500	S,Sol	H bond	Boll	ACS	12	(1958)	1777
$C_7H_6N_2O_6$	3,5-Dinitrosaligenin	-	-	Spec	Hoyer	ZE	64	(1960)	958
$C_7H_6N_2S$	p-Aminophenyl isothio-cyanate	600-2200	-	Characteristic freq	Lieber	SA	13	(1959)	296
		2000-2300	Sol	Characteristic freq	Caldow	SA	13	(1958)	212
$C_7H_6N_2S$	p-Aminophenyl thio-cyanate	2600-800	Sol	NH band freq, Struct	Whetsel	AC	30	(1958)	1598
$C_7H_6N_4$	2-Methylpteridine	689-2000	S	Table, I	Mason	JCS	-	(1955)	2336
$C_7H_6N_4$	4-Methylpteridine	705-2000	S	Table, I	Mason	JCS	-	(1955)	2336
$C_7H_6N_4$	7-Methylpteridine	678-1990	S	Table, I	Mason	JCS	-	(1955)	2336

$C_7H_6N_4O$	1,2-Dihydro-1-hydroxy-iminobenzotriazine	3378-771	S	Wave number, Struct	Aron	CIL	-	(1958)	1234
$C_7H_6N_4O$	2-Methoxypteridine	746-2050	S	Table, I	Mason	JCS	-	(1955)	2336
$C_7H_6N_4O$	4-Methoxypteridine	715-1985	S	Table, I	Mason	JCS	-	(1955)	2336
$C_7H_6N_4O$	6-Methoxypteridine	688-3500	S	Spec, Table, Assign, I	Mason	JCS	-	(1955)	2336
$C_7H_6N_4O$	7-Methoxypteridine	720-1955	S	Spec, Table, I	Mason	JCS	-	(1955)	2336
$C_7H_6N_4O_4$	Formaldehyde-2,4-dinitrophenylhydrazone	-	-	Ident	Flynn	JACS	75	(1953)	5867
		-	-	Ident	Grundon	JACS	75	(1953)	2537
		6-15μ	S	Spec, Table	Ross	AC	25	(1953)	1288
		2-15μ	S	Spec, Ident	Jaues	AC	28	(1956)	191
$C_7H_6N_4S$	2-Methylthiopteridine	712-1580	S	Table, I	Mason	JCS	-	(1955)	2336
$C_7H_6N_4S$	4-Methylthiopteridine	834-1980	S	Table, I	Mason	JCS	-	(1955)	2336
$C_7H_6N_4S$	7-Methylthiopteridine	686-3500	S	Spec, Table, Assign, I	Mason	JCS	-	(1955)	2336
$C_7H_6N_4S$	5-Phenylamino-1,2,3,4-thiatrizole	700-1700	S	Spec, Struct, Assign, Taut	Lieber	CJC	36	(1958)	801
$C_7H_6N_4S$	1-Phenyltetrazoline-5-thione	700-1700	S	Spec, Struct, Assign, Taut	Lieber	CJC	36	(1958)	801
$C_7H_6N_6O_2$	1-m-Nitrophenyl-5-aminotetrazole	2-6.6μ	S	Band freq	Murphy	JOC	19	(1954)	1807
$C_7H_6N_6O_2$	1-p-Nitrophenyl-5-aminotetrazole	2-6.6μ	S	Band freq	Murphy	JOC	19	(1954)	1807
C_7H_6O	Benzaldehyde	-	L	Beer's Law	Baly	JCS	-	(1915)	1121
		7-2.5μ	L	Carbonyl study	Ellis	JACS	51	(1929)	1384
		-	-	Solvent effect	Gordy	JCP	7	(1939)	93
		5.5-6.5μ	L	Spec, H bond	Gordy	JCP	8	(1940)	516
		1050-2000	-	Spec, Absorption freq	Barnes	IEC	15	(1943)	659

		-	-	FC	Linnett	TFS	41	(1945)	223
		5-8μ	-	C_6H_6 derivatives	Depaigne	JPR	7	(1946)	33
		-	-	FC	Walsh	TFS	43	(1947)	1582
		-	Sol	Bond freq	Flett	JCS	-	(1948)	1441
		-	-	Bond freq, Chem properties	Flett	TFS	44	(1948)	767
		1600-3700	Sol	Spec	Hunsberger	JACS	72	(1950)	5626
		1800-1650	Sol	Ext coeff	Cross	TFS	47	(1951)	354
		-	L	Bond freq	Grove	JCS	-	(1952)	3345
		1702-1710	Sol	Bond freq, I	Barrow	JCP	21	(1953)	2008
		-	-	Struct	Garg	JCP	21	(1953)	1907
		1460-1000	Sol	Struct	Briner	CPR	238	(1954)	221
		-	Sol	I, Solvent effect	Hirota	BCSJ	27	(1954)	295
		-	Sol	Spec, Anal	Wiberg	JACS	74	(1954)	5371
		650-1740	Sol	IR, Freq shift	Bellamy	JCS	-	(1955)	4221
		625-900	-	Substitution effect	Margoshes	SA	7	(1955)	14
		-	Sol	Group & Band freq	Pinchas	AC	27	(1955)	2
		2-15μ	L,S,Sol	Assign	Eggers	AC	28	(1956)	1328
		-	-	CH bond energy	Reed	TFS	52	(1956)	1195
		-	Sol	H bond, I, FC	Forbes	CJC	35	(1957)	488
		2690-2740	Sol	Bond freq, H bond	Pinchas	AC	29	(1957)	334
		-	-	FC	Rao	CS	26	(1957)	375
		-	Sol	Freq, I	Thompson	SA	9	(1957)	208
		-	Sol	Assign, Band freq	Katritzky	JCS	-	(1958)	2182
		600-4000	Sol	Group freq	Katritzky	JCS	-	(1958)	4155
		4000-600	Sol	Spec, Freq, H bond	Heinert	JACS	81	(1959)	3933
		-	Sol	Freq	West	CIL	-	(1959)	333
		4000-600	L	Spec, Freq	Herzert	JOC	25	(1960)	405
		-	Sol	Anal	Powers	AC	32	(1960)	1287
C_7H_6O	Cycloheptatrienylium oxide	-	-	Band freq, Struct, Spec	Doering	JACS	73	(1951)	876
C_7H_6O	Tropone	5-8μ	L	Band freq	Dauben	JACS	73	(1951)	876
		1150-1650	L	Band freq	Johns	JCS	-	(1954)	4605
		-	Sol	Bond freq	Pauson	CR	55	(1955)	9
C_7H_6OS	2-Mercaptotropone	-	Sol	Band freq	Bryant	JOC	19	(1954)	1889

C_7H_6OS	Phenylthio formate	2.5-16μ	Sol	Chemical struct	Nyguist	SA	15	(1959)	514
C_7H_6OS	Thiobenzoic acid	-	Sol	Band freq	Plant	JACS	77	(1955)	1572
		2.5-16μ	Sol	Chemical struct	Nyguist	SA	15	(1959)	514
$C_7H_6O_2$	Benzoic acid	-	Sol	Spec	Plyler	JCP	2	(1934)	306
		2000-3800	Sol	Spec, H bond	Bushwell	JACS	60	(1938)	2239
		-	-	H bond	Davies	JCP	6	(1938)	755
		2.8-5.2μ	Sol	Spec, H bond	Wall	JACS	61	(1939)	2812
		1697-3000	Sol	Freq	Flett	JCS	-	(1948)	1441
		1700-3500	Sol	Freq, Chem properties	Flett	TFS	44	(1948)	767
		-	-	FC	Richards	TFS	44	(1948)	40
		-	Sol	Bond vib, I	Richards	TFS	45	(1949)	874
		700-4000	S,L, Sol	Table, Ext coeff	Flett	JCS	-	(1951)	962
		-	S	Bond freq, Taut	Grove	JCS	-	(1951)	877
		-	S	Bond freq	Grove	JCS	-	(1952)	3345
		2-16μ	S	Spec	Anderson	AC	25	(1953)	1906
		-	-	Anal	Emmons	JACS	75	(1953)	6047
		500-1500	S	Spec, Assign	Hadzi	PRS	216	(1953)	247
		-	-	Deuterium exchange	Bonner	JACS	76	(1954)	6350
		-	S	Transmission vs. Conc graph	French	JPC	58	(1954)	805
		-	Sol	Dissociation const	Goulden	SA	6	(1954)	129
		-	-	Band freq, I	Hales	JCS	-	(1954)	3145
		650-1740	Sol	Freq shift, Struct	Bellamy	JCS	-	(1955)	4221
		9.84-14μ	Sol	Quant anal	Jackson	JACS	77	(1955)	5625
		625-900	-	CH out of phase	Margoshes	SA	7	(1955)	14
		-	L,S	ν OH, ν OD	Bratoz	SA	8	(1956)	249
		12-15μ	S	CH out of phase	Kross	JACS	78	(1956)	1332
		3-15μ	Sol	Spec, Struct	Farmer	SA	8	(1957)	374
		-	L,S	Spec	Karagonuis	ZE	61	(1957)	1094
		-	-	FC	Rao	CS	26	(1957)	375
		3-6μ	Sol	I, Band freq	Wenograd	JACS	79	(1957)	5844
		-	Sol	Carbony freq	Exner	CIL	-	(1958)	1174
		2-15μ	S	Spec, Freq, Assign	Gonzales	SA	12	(1958)	17
		1500-1700	G	Spec, Freq, Assign	Hadzi	SA	12	(1958)	162
		1500-3700	Sol	ν CO, ν OH	Cole	JCS	-	(1959)	2005

		680-2500	-	Spec	Hadzi	NC	11 (1959)	715
		-	Sol	ν CO shift	Horak	TEL	3 (1959)	19
		1300-3500	-	Shift, stretching freq	Jones	CIL	- (1959)	880
		5.5-6.5μ	Sol	Band freq, Ident	Sawicki	AC	31 (1959)	523
		-	Sol	Spec, Carbonyl freq	Forbers	CJC	38 (1960)	728
		4000-600	S	Spec, Freq	Herzert	JOC	25 (1960)	405
		5-15μ	S	Pressure effect on freq, I	Lippincott	SA	16 (1960)	58
		650-900	L,Sol	CH out of phase	Yoshida	CPBT	8 (1960)	389
$C_7H_6O_2$	m-Formylphenol	-	L	Substitution effect	Cabana	JPC	64 (1960)	1941
$C_7H_6O_2$	o-Formylphenol	-	L	Substitution effect	Cabana	JPC	64 (1960)	1941
$C_7H_6O_2$	p-Formylphenol	-	L	Substitution effect	Cabana	JPC	64 (1960)	1941
$C_7H_6O_2$	3-α-Furylacrolein	1400-2000	Sol	Spec	Blout	JACS	70 (1948)	194
$C_7H_6O_2$	2,4-Heptadiynoic acid	-	S	Group freq, I	Allan	JCS	- (1955)	1874
$C_7H_6O_2$	2,6-Heptadiyonic acid	-	-	Group freq	Shaw	JCS	- (1954)	3217
		-	Sol	Group freq, I	Allan	JCS	- (1955)	1874
$C_7H_6O_2$	m-Hydroxybenzaldehyde	2950-3700	Sol	Spec	Errera	TFS	34 (1938)	728
		-	Sol	Dissociation const	Goulden	SA	6 (1954)	129
		2723-2820	Sol	CH freq, H bond	Pinchas	AC	29 (1957)	334
		-	Sol	Aromatic ring substituent	Stone	SA	10 (1958)	17
		3500-3800	Sol	Hammett const	Puttnam	JCS	- (1960)	5100
$C_7H_6O_2$	o-Hydroxybenzaldehyde	-	Sol	H bond	Hilbert	JACS	58 (1936)	548
		2950-3700	Sol	Spec	Errera	TFS	34 (1938)	728
		2.6-3.2μ	Sol	Spec, H bond	Gordy	JCP	7 (1939)	167
		5.5-6.5μ	L	Spec, H bond	Gordy	JCP	8 (1940)	516
		1050-1800	-	Spec, Absorption freq	Barnes	IEC	15 (1943)	659
		-	-	Bond freq	Flett	JCS	- (1948)	1441
		2.2-3.6μ	Sol	Spec	Hukins	JCS	- (1949)	898
		1600-3700	Sol	Spec	Hunsberger	JACS	72 (1950)	5626
		-	Sol	Band freq	Martin	N	166 (1950)	474

		-	Sol	Band freq	Amstutz	JACS	73	(1951)	1220
		-	Sol	H bond	Tsuboi	BCSJ	25	(1952)	60
		-	Sol	Bond freq	Bellamy	JCS	-	(1954)	4487
		2-12μ	Sol	Spec, Struct	O'Connor	JACS	76	(1954)	2368
		-	-	Freq	Pinchas	AC	27	(1955)	2
		-	Sol	Chelation study	Puranik	JCP	23	(1955)	761
		-	Sol	Bond freq, I	Tsubomura	JCP	24	(1956)	927
		-	Sol	Freq	Bavin	CJC	35	(1957)	1555
		2.8-12μ	Sol	Bond freq	Pinchas	AC	29	(1957)	334
		1600-3400	Sol	Spec, Iso	Chiorboli	ANCR	48	(1958)	363
		3μ	Sol	Freq, H bond	Flett	SA	10	(1958)	21
		650-4000	Sol,L	Spec, Freq, H bond	Heinert	JACS	81	(1959)	3933
		800-1600	-	Ext coeff	Katritzky	JCS	-	(1959)	3670
		700-3100	L	Spec	Yamada	BCSJ	32	(1959)	1051
		-	Sol	Anal	Powers	AC	32	(1960)	1287
		-	Sol	Chemical shift, H bond	Reeves	CJC	38	(1960)	1249
$C_7H_6O_2$	p-Hydroxybenzaldehyde	6900-7200	Sol	Spec, Group anal	Wulf	JACS	57	(1935)	1464
		2.6-3.2μ	Sol	Spec, H bond	Gordy	JCP	7	(1939)	167
		3μ	Sol	Stretching freq	Ingraham	JACS	74	(1952)	2297
		-	Sol	Freq, I	Barrow	JCP	21	(1953)	2008
		-	Sol	Dissociation const	Goulden	SA	6	(1954)	129
		700-1000	Sol,S	CH out of phase	Bellamy	JCS	-	(1955)	2818
		-	Sol	Group & Band freq	Pinchas	AC	27	(1955)	2
		1700	Sol	Freq, I	Thompson	SA	9	(1957)	208
		-	Sol	Aromatic ring substituent	Stone	SA	10	(1958)	17
		3500-3800	Sol	Hammett const	Puttnam	JCS	-	(1960)	5100
$C_7H_6O_2$	3-Hydroxytropone	1150-1650	S	Band freq	Johns	JCS	-	(1954)	4605
		-	Sol	CO freq	Pauson	CR	55	(1955)	9
		-	Sol	Shift, Freq assign	Flaig	A	626	(1959)	215
$C_7H_6O_2$	2-Methyl-p-benzoquinone	5-15μ	S,Sol	Table, Substitution effect	Yates	JACS	78	(1956)	650
		-	Sol	Shift, Freq assign	Flaig	A	626	(1959)	215

$C_7H_6O_2$	Methylenedioxybenzene	2-12 μ	Sol	Spec	Gensler	JOC	18	(1953)	9
		700-5000	L	Spec, Group freq	Briggs	AC	29	(1957)	904
$C_7H_6O_2$	Methyl-2,4-hexadiynoate	-	Sol	Group freq, I	Allan	JCS	-	(1955)	1874
$C_7H_6O_2$	Tropolone	700-4000	Sol	Spec, Struct	Doering	JACS	73	(1951)	828
		670-3500	S,Sol	Spec, H bond	Koch	JCS	-	(1951)	614
		600-3400	S,L, Sol	Spec, H bond	Kuratani	BCSJ	25	(1952)	250
		-	Sol	Band freq	Bryant	JOC	19	(1954)	1889
		1150-1650	S	Band freq	Johns	JCS	-	(1954)	4605
		-	-	Ident	Johnson	JCS	-	(1954)	1331
		-	Sol	Bond freq	Pauson	CR	55	(1955)	9
$C_7H_6O_2S_2$	2,4-Dihydroxydithio-benzoic acid	600-1900	Sol	Freq, Spec	Jones	JCS	-	(1957)	614
$C_7H_6O_2S_3$	2-Thenylcarboxymethyl dithioacetate	400-4000	S	Spec, Freq	Bak	ACS	12	(1958)	1451
$C_7H_6O_3$	Desoxypatulin	5-6.6 μ	Sol	Spec, Quant anal	Woodward	JACS	71	(1949)	759
$C_7H_6O_3$	2,4-Dihydroxy-benzaldehyde	-	Sol	Chelate	Bellamy	JCS	-	(1954)	4487
		2.8-12 μ	Sol	Bond freq, H bond	Pinchas	AC	29	(1957)	334
$C_7H_6O_3$	3,4-Dihydroxy-benzaldehyde	3 μ	Sol	Stretch freq, Hammett const	Ingraham	JACS	74	(1952)	2297
		4000-600	S	Spec, Freq	Herzert	JOC	25	(1960)	405
$C_7H_6O_3$	1-(2'-Furyl)propane-1,2-dione	-	Sol	Stretch freq	Consgrooe	JCS	-	(1952)	4821
$C_7H_6O_3$	m-Hydroxybenzoic acid	1050-1800	-	Spec, Absorption freq	Barnes	IEC	15	(1943)	659
		3 μ	Sol	Stretch freq, Hammett const	Ingraham	JACS	74	(1952)	2297
		-	-	Absorbance calculation	Bomstein	AC	25	(1953)	512
		-	-	Dissociation const	Goulden	SA	6	(1954)	129
		-	Sol	Spec, Freq	Forbers	CJC	38	(1960)	728

$C_7H_6O_3$	o-Hydroxybenzoic acid	700-4000	L,S, Sol	Table, Ext coeff, Freq	Flett	JCS	-	(1951)	962
		-	-	Absorbance calculation	Bomstein	AC	25	(1953)	512
		-	Sol	Chelate	Bellamy	JCS	-	(1954)	4487
		-	-	Band freq, I	Hales	JCS	-	(1954)	3145
		-	-	Bond lengh & Freq	Margoshes	JCP	22	(1954)	381
		5.5-6.5μ	Sol	Bond freq, Ident	Sawicki	AC	31	(1959)	523
		-	Sol	Spec, Freq	Forbers	CJC	38	(1960)	728
$C_7H_6O_3$	p-Hydroxybenzoic acid	1050-1800	-	Spec, Freq	Barnes	IEC	15	(1943)	659
		700-4000	S,L, Sol	Table, Ext coeff, Freq	Flett	JCS	-	(1951)	962
		3μ	Sol	Stretch freq, Hammett const	Ingraham	JACS	74	(1952)	2297
		-	-	Absorbance calculation	Bomstein	AC	25	(1953)	512
		-	Sol	Dissociation const	Gowlden	SA	6	(1954)	129
		12-15μ	L	CH out of phase	Kross	JACS	78	(1956)	1332
		-	Sol	Spec, Freq	Forbers	CJC	38	(1960)	728
		650-900	L,Sol	CH out of phase	Yoshida	CPBT	8	(1960)	389
$C_7H_6O_3$	2-Hydroxy-3-methyl-p-benzoquinone	-	Sol	Shift, Freq assign	Flaig	A	626	(1959)	215
$C_7H_6O_3$	2-Hydroxy-5-methyl-p-benzoquinone	5-15μ	S,Sol	Table, Substitution effect	Yates	JACS	78	(1956)	650
		-	Sol	Shift, Freq assign	Flaig	A	626	(1959)	215
$C_7H_6O_3$	2-Hydroxy-6-methyl-p-benzoquinone	-	Sol	Shift, Freq assign	Flaig	A	626	(1959)	215
$C_7H_6O_3$	5-Hydroxy-2-methyl-p-benzoquinone	5-15μ	L	Freq position	Yates	JACS	78	(1956)	650
$C_7H_6O_3$	Hydroxytropolone	-	Sol	Band freq	Bryant	JOC	19	(1954)	1889
$C_7H_6O_3$	Methoxy-p-Benzoquinone	-	Sol	Struct, Bond freq	Cosgrove	JCS	-	(1952)	4821

		-	Sol	Shift, Freq assign	Flaig	A	626	(1959)	215
$C_7H_6O_3$	5-Methyl-2-furylglyoxal	-	Sol	Struct, Bond freq	Josgrove	JCS	-	(1952)	4821
$C_7H_6O_3$	Perbenzoic acid	-	Sol	Table, Bond freq	Davison	JCS	-	(1951)	2456
		1460-1100	Sol	Oxidation studies	Briner	CPR	238	(1954)	2211
$C_7H_6O_3S$	3-Carbomethoxy-1,4-thiapyrone	753-1682	S	Table, Group freq, I	Tarbell	JACS	76	(1954)	2451
$C_7H_6O_3S_2$	2-Furylcarboxymethyl dithioacetate	400-4000	S	Spec, Freq	Bak	ACS	12	(1958)	1451
$C_7H_6O_3S_2$	2,4,6-Trihydroxydithiobenzoic acid	600-1900	S	Spec	Jones	JCS	-	(1957)	614
$C_7H_6O_4$	2,4-Dihydroxybenzoic acid	-	Sol	Chelate	Bellamy	JCS	-	(1954)	4481
		5.5-6.5μ	Sol	Ident, Band freq	Sawicki	AC	31	(1959)	523
$C_7H_6O_4$	Isoclavacin	-	S	Bond freq, Struct	Grove	JCS	-	(1951)	883
$C_7H_6O_4$	Patulin	5-6.6μ	Sol	Spec, Quant anal	Woodward	JACS	71	(1949)	759
		-	S	Bond freq	Grove	JCS	-	(1951)	883
$C_7H_6O_4$	2,4,6-Trihydroxytropone	667-3359	S	Table	Johns	JCS	-	(1954)	4605
$C_7H_6S_2$	Dithiobenzoic acid	2700-2000	L,Sol	Spec	Allen	JCS	-	(1957)	3912
C_7H_7	Benzyl radical	-	-	Resonance Energy	Szwarc	DFS	2	(1947)	39
C_7H_7	Tropylium ion	633-3080	S,Sol	Table, Group freq, assign, I	Fateley	JACS	77	(1955)	249
		400-3500	Sol	Spec, Assign, Struct, FC, NCA	Fateley	JCP	26	(1957)	1471

C_7H_7D	Toluene-m-d_1	2-16μ	L,Sol	Spec, Table	Turkevich	JACS	71	(1949)	4045
		3.27-17μ	Sol	Quant anal	Tiers	JCP	19	(1951)	1072
		500-900	Sol	Freq, I	Tiers	JCP	20	(1952)	761
C_7H_7D	Toluene-o-d_1	2-16μ	L,Sol	Spec, Table	Turkevich	JACS	71	(1949)	4045
		3.27-17μ	Sol	Quant anal	Tiers	JCP	19	(1951)	1072
		500-900	Sol	Freq, I	Tiers	JCP	20	(1952)	761
C_7H_7D	Toluene-p-d_1	2-16μ	L,Sol	Spec, Table	Turkevich	JACS	71	(1949)	4045
		3.27-17μ	Sol	Quant anal	Tiers	JCP	19	(1951)	1072
		500-900	Sol	Freq, I	Tiers	JCP	20	(1952)	761
C_7H_7D	Toluene-ω-d_1	2-16μ	L,Sol	Spec, Table	Turkevich	JACS	71	(1949)	4045
C_7H_7DClN	p-Chloro-N-methyl-aniline-d_1	-	L	Band freq	Hadzi	JCS	-	(1957)	843
C_7H_7DO	Anisole-4-d_1	500-900	Sol	Freq, I	Tiers	JCP	20	(1952)	761
$C_7H_7DO_2S$	p-Toluene-d_1-sulphinic acid	700-3000	S	Struct, Assign, H bond	Detoni	JCS	-	(1955)	3163
C_7H_7Br	Benzyl bromide	-	-	Thermo	Brickwedde	JCP	13	(1943)	547
		13.5-19μ	L	Spec	Mortimer	JACS	69	(1947)	822
		2-15μ	Sol	Spec, Photobromination	Anderson	JCP	21	(1953)	1258
C_7H_7Br	m-Bromotoluene	5-8μ	-	C_6H_6 derivatives	Depaigne	JPR	7	(1946)	33
		9-14μ	Sol	Freq, I, Dipole moment	Cole	TFS	46	(1950)	103
		2-15μ	Sol	Spec, Photobromination	Anderson	JCP	21	(1953)	1258
		700-1000	S,Sol	Binding Freq	Bellamy	JCS	-	(1955)	2818
		-	Sol	Anal	Brown	JACS	77	(1955)	2300
		-	Sol	Anal	Brown	JACS	77	(1955)	2306
C_6H_6Br	o-Bromotoluene	5-8μ	-	C_6H_6 derivatives	Depaigne	JPR	7	(1946)	33
		2-15μ	Sol	Spec, Photo-bromination	Anderson	JCP	21	(1953)	1258
		-	Sol	Anal	Brown	JACS	77	(1955)	2300

		-	Sol	Anal	Brown	JACS	77	(1955)	2306
		800-1600	-	I, Position of Bands	Katritzky	JCS	-	(1959)	3670
C_7H_7Br	p-Bromotoluene	5-8 μ	-	C_6H_6 derivatives	Depaigne	JPR	7	(1946)	33
		12-14 μ	Sol	Freq, I	Bell	PRS	192	(1948)	498
		9-14 μ	Sol	Freq, I, Dipole moment	Cole	TFS	46	(1950)	103
		-	-	Ident	Haszeldine	JCS	-	(1952)	993
		2-15 μ	Sol	Spec, Photo-bromination	Anderson	JCP	21	(1953)	1258
		-	Sol	Anal	Brown	JACS	77	(1955)	2300
		-	Sol	Anal	Brown	JACS	77	(1955)	2306
		900-1050	Sol	Rocking mode freq	Randle	JCS	-	(1955)	3497
		12-15 μ	L,Sol	CH out of phase	Kross	JACS	78	(1956)	1332
		-	Sol	Band I	Randle	TFS	52	(1956)	9
		3400-600	S,Sol	Spec	Sharp	JCS	-	(1957)	4804
		2700-3000	L,G	Assign	Fuson	BCSJ	-	(1959)	93
		700-1700	Sol	Freq assign, I	Katritzky	JCS	-	(1959)	2051
C_7H_7Br	Cycloheptatrienylium bromide	2.88-15.38 μ	S	Table, I	Doering	JACS	76	(1954)	3203
$C_7H_7BrN_2O_2$	N-Methyl-2-nitro-4-bromoaniline	3500-3200	Sol	Freq	Moritz	SA	15	(1959)	242
C_7H_7BrO	p-Bromoanisole	22-39 μ	L	Absorption freq	Plyler	JCP	17	(1949)	218
		-	-	Ident	Haszeldine	JCS	-	(1952)	993
		600-1700	L	Spec	Lecompte	CPR	249	(1959)	2443
C_7H_7BrO	o-Bromoanisole	1000-1900	-	Spec	Barnes	IEC	15	(1943)	659
		22-39 μ	L	Absorption freq	Plyler	JCP	17	(1949)	218
		800-1600	-	I, Ext coeff	Katritzky	JCS	-	(1959)	3670
$C_7H_7BrO_3S$	Methyl p-bromobenzene-sulphonate	400-4000	S,Sol	Spec, Assign	Freeman	AJC	10	(1957)	239
$C_7H_7Br_3N$	p-Toluidinediazo per-bromide	1350-3250	-	Band & Group freq	Aroney	JCS	-	(1955)	1630

C_7H_7Cl	Benzyl chloride	-	-	Thermo	Brickwedde	JCP	13	(1945)	547
		-	-	FC	Linnett	TFS	41	(1945)	223
		-	-	Band freq	Sheppard	TFS	46	(1950)	429
		-	Sol	Anal	Kovacic	JACS	76	(1954)	5491
		625-900	-	CH out of phase	Margoshes	SA	7	(1955)	14
		2-15μ	L,Sol	Spec, Anal	Freeman	AC	29	(1957)	63
C_7H_7Cl	m-Chlorotoluene	750-1950	-	Freq, Spec	Barnes	IEC	15	(1943)	659
		5-8μ	-	C_6H_6 derivatives	Depaigne	JPR	7	(1949)	33
		5-6μ	-	Spec	Young	AC	23	(1951)	709
		-	-	Absorbance study	Bomstein	AC	25	(1953)	512
		-	Sol	Anal	Kovacic	JACS	76	(1954)	5497
		2-15μ	L,Sol	Spec	Freeman	AC	29	(1957)	63
		700-1700	Sol	I, Substituent effect	Katritzky	JCS	-	(1959)	2058
C_7H_7Cl	o-Chlorotoluene	750-1050	-	Spec, Freq	Barnes	IEC	15	(1943)	659
		7-14μ	Sol	Spec, Anal	Downing	IEC	18	(1946)	461
		9-14μ	Sol	Freq, I, Dipole moment	Cole	TFS	46	(1950)	103
		-	Sol	Band freq, H bond	Tamres	JACS	74	(1952)	3375
		-	-	Absorbance study	Bomstein	AC	25	(1953)	512
		-	Sol	Anal	Kovacic	JACS	76	(1954)	5491
		2-15μ	L,Sol	Spec, Anal	Freeman	AC	29	(1957)	63
		800-1600	-	I, Ext coeff	Katritzky	JCS	-	(1959)	3670
C_7H_7Cl	p-Chlorotoluene	750-1900	-	Spec, Freq	Barnes	IEC	15	(1943)	659
		5-8μ	-	C_6H_6 derivatives	Depaigne	JPR	7	(1946)	33
		7-14μ	-	Spec, Anal	Downing	IEC	18	(1946)	461
		12-14μ	Sol	Freq, I	Bell	PRS	192	(1948)	498
		9-14μ	Sol	Freq, I, Dipole moment	Cole	TFS	46	(1950)	103
		-	-	Band freq, Absorbance study	Bomstein	AC	25	(1953)	512
		-	Sol	Anal	Kovacic	JACS	76	(1954)	5491
		900-1050	Sol	Rocking mode freq	Randle	JCS	-	(1955)	3497
		12-15μ	L,Sol	CH out of phase	Kross	JACS	78	(1956)	1332
		-	Sol	Band I	Randle	TFS	52	(1956)	9

		2-15μ	L,Sol	Spec, Anal	Freeman	AC	29	(1957)	63
		2700-3000	L,G	Assign	Fuson	BCSJ	-	(1959)	93
		700-1700	Sol	Freq, Assign	Katritzky	JCS	-	(1959)	2051
$C_7H_7ClF_4O$	1-Propoxy-2-chloro-3,3,4,4-tetrafluoro-cyclobutene-1	3-15μ	G,L	Spec, Struct	Park	JACS	73	(1951)	2342
$C_7H_7ClNO_2S$	4-Methylsulfonyl-1-amino-2-chlorobenzene	-	-	Spec	Merian	HCA	43	(1960)	1122
$C_7H_7ClN_2O$	2-Acetamaido-5-chloro-pyridine	-	Sol	Spec	Bogomolor	IANS	23	(1959)	1199
$C_7H_7ClN_2O_2$	N-Methyl-2-nitro-4-chloroaniline	3500-3200	Sol	Freq	Moritz	SA	15	(1959)	242
$C_7H_7ClN_2O_2$	N-Methyl-N'-4-chloro-phenyldiamide dioxide	1600-600	S,Sol	Freq, Assign	George	CJC	37	(1959)	679
$C_7H_7ClN_2O_2$	N-Methyl-2-nitro-5-chloroaniline	3500-3200	Sol	Freq	Moritz	SA	15	(1959)	242
$C_7H_7ClN_2O_4S$	1-Chloro-2-nitrobenzene-4-sulfonmethylamide	-	-	Spec	Merian	HCA	43	(1960)	1122
C_7H_7ClO	m-Chlorobenzyl alcohol	-	-	Iso, Substitution effect	Oki	BCSJ	32	(1959)	955
C_7H_7ClO	p-Chlorobenzyl alcohol	-	-	Iso, Substitution effect	Oki	BCSJ	32	(1959)	955
C_7H_7ClO	4-Chloro-3-methylphenol	3500-3800	Sol	Hammett const, Freq	Puttnam	JCS	-	(1960)	5100
C_7H_7ClO	Ethynylchloroethynyl-ethylcarbinol	-	-	Band freq	Mclamore	JOC	20	(1955)	109
C_7H_7ClO	o-Methoxychlorobenzene	5-8μ	-	C_6H_6 derivatives	Depaigne	JPR	7	(1946)	33
		800-1600	-	I, Ext coeff	Katritzky	JCS	-	(1959)	3670
C_7H_7ClO	p-Methoxychlorobenzene	5-8μ	-	C_6H_6 derivatives	Depaigne	JPR	2	(1946)	33

$C_7H_7Cl_3NO_2B$	3-Carbomethoxypyridine boron trichloride complex	-	Sol	Assign	Katritzky	JCS	-	(1958)	2182
		-	Sol	Freq, Assign	Katritzky	JCS	-	(1959)	2049
$C_7H_7Cl_3NO_2B$	4-Carbomethoxypyridine boron trichloride complex	-	Sol	Assign	Katritzky	JCS	-	(1958)	2182
		-	Sol	Freq, Assign	Katritzky	JCS	-	(1959)	2049
$C_7H_7Cl_3OSi$	Trichlorosilylmethyl phenyl ether	-	-	Induction effect	Josien	CPR	249	(1959)	826
C_7H_7F	Benzyl fluoride	3680-3460	Sol	H bond absent	Mcdonald	JCP	23	(1955)	1170
C_7H_7F	m-Fluorotoluene	12-14μ	Sol	Freq, I	Bell	PRS	192	(1948)	498
		500-1700	L	Spec	Thompson	JCS	-	(1948)	1432
		9-14μ	Sol	Freq, I, Dipole moment	Cole	TFS	46	(1950)	103
		700-1400	S,Sol	Bending freq	Bellamy	JCS	-	(1955)	2818
		-	-	UV anal, Freq	Suryanarayana	TFS	53	(1957)	1570
C_7H_7F	o-Fluorotoluene	12-14μ	Sol	Freq, I	Bell	PRS	192	(1948)	498
		500-1700	L	Spec	Thompson	JCS	-	(1948)	1432
		9-14μ	Sol	Freq, I, Dipole moment	Cole	TFS	46	(1950)	103
		2700-3100	-	UV anal, Freq	Suryanarayana	TFS	53	(1957)	1570
C_7H_7F	p-Fluorotoluene	12-14μ	Sol	Freq, I	Bell	PRS	192	(1948)	498
		500-1700	G,L	Spec	Thompson	JCS	-	(1948)	1432
		9-14μ	Sol	Freq, I, Dipole moment	Cole	TFS	46	(1950)	103
		-	-	Band freq	Bomstein	AC	25	(1953)	512
		2-38μ	L,G	IR, Assign	Ferguson	JCP	21	(1953)	1736
		900-1500	Sol	Rocking mode freq	Randle	JCS	-	(1955)	3497
		12-15μ	L	Bending freq	Kross	JACS	78	(1956)	1332
		-	Sol	Band I	Randle	TFS	52	(1956)	9
		-	-	UV Anal, Freq	Suryanarayana	TFS	53	(1957)	1570
		2700-3000	G,L	Assign	Fuson	BCSJ	-	(1959)	93
$C_7H_7F_7O$	Perfluoropropyl isopropyl ketone	650-500	Sol	Stretch freq	Griffin	SA	16	(1960)	1464
$C_7H_7F_7O$	Perfluoropropyl n-propyl ketone	650-500	Sol	Stretch freq	Griffin	SA	16	(1960)	1464

$C_7H_7F_7O_2$	Isopropyl heptafluoro -n-butyrate	1200-2000	Sol	Band freq	Bender	JACS	75	(1953)	5986
C_7H_7I	Benzyl iodide	-	-	Thermo	Brickwedde	JCP	13	(1945)	547
C_7H_7I	m-Iodotoluene	665-1755	S,Sol	Assign, I	Bell	JCS	-	(1960)	1209
C_7H_7I	o-Iodotoluene	5-8μ	-	C_6H_6 derivatives	Depaigne	JPR	7	(1946)	33
		9-14μ	Sol	Freq, I, Dipole moment	Cole	TFS	46	(1950)	103
		700-800	S,Sol	Assign, I	Bell	JCS	-	(1960)	1209
C_7H_7I	p-Iodotoluene	5-8μ	-	C_6H_6 derivatives	Depaigne	JPR	7	(1946)	33
		12-14μ	Sol	Freq, I	Bell	PRS	192	(1948)	498
		-	-	Spec	Richards	PRS	195	(1948)	1
		9-14μ	Sol	Freq, I, Dipole moment	Cole	TFS	46	(1950)	103
		900-1050	Sol	Rocking mode freq	Randle	JCS	-	(1955)	3497
		12-15μ	L	CH out of phase	Kross	JACS	78	(1956)	1332
		-	Sol	Band I	Randle	TFS	52	(1956)	9
		2700-3000	G,L	Assign	Fuson	BCSJ	-	(1959)	93
		700-1700	Sol	Freq, Assign, I	Katritzky	JCS	-	(1959)	2051
		665-1755	S,Sol	Assign, I	Bell	JCS	-	(1960)	1209
C_7H_7IO	o-Iodoanisole	665-1755	S,Sol	Assign, I	Bell	JCS	-	(1960)	1209
C_7H_7IO	p-Iodoanisole	665-1755	S,Sol	Assign, I	Bell	JCS	-	(1960)	1209
C_7H_7IO	m-Iodoxytoluene	665-1755	S,Sol	Assign, I	Bell	JCS	-	(1960)	1209
C_7H_7IO	o-Iodoxytoluene	665-1755	S,Sol	Assign, I	Bell	JCS	-	(1960)	1209
C_7H_7IO	p-Iodoxytoluene	665-1755	S,Sol	Assign, I	Bell	JCS	-	(1960)	1209
$C_7H_7IO_2$	o-Iodoxyanisole	665-1755	S,Sol	Assign, I	Bell	JCS	-	(1960)	1209

$C_7H_7IO_2$	p-Iodoxyanisole	665-1755	S,Sol	Assign, I	Bell	JCS	-	(1960)	1209
C_7H_7N	2,4,6-Heptatriene-nitrile	1-15μ	-	Spec, Struct	Cairns	JACS	74	(1952)	5636
C_7H_7N	Vinylpyridine	-	-	Anal, Struct	Foster	JACS	75	(1953)	2910
		-	L	Ident	Janz	JACS	75	(1953)	5389
C_7H_7NO	2-Acetylpyridine	-	Sol	Band characteristic, Assign	Katritzky	JCS	-	(1958)	2182
C_7H_7NO	3-Acetylpyridine	-	Sol	Band characteristic, Assign	Katritzky	JCS	-	(1958)	2182
		600-3000	Sol	Assign, Symmetry	Katritzky	JCS	-	(1958)	3165
C_7H_7NO	4-Acetylpyridine	-	Sol	Band characteristic, Assign	Katritzky	JCS	-	(1958)	2182
C_7H_7NO	2-Aminotropone	-	Sol	Band freq	Bryant	JOC	19	(1954)	1889
		-	S	Spec, H bond	Kuratani	BCSJ	25	(1952)	250
C_7H_7NO	Benzaldoxime	-	-	Ident	Horning	JACS	74	(1952)	5151
		3μ	Sol	Freq, H bond	Flett	SA	10	(1958)	21
		2.38μ	-	H bond	Goddu	AC	30	(1958)	1707
C_7H_7NO	Benzamide	6400-7100	Sol	Spec, Group anal	Wulf	JACS	57	(1935)	1464
		6500-7100	Sol	Spec, H bond	Hilbert	JACS	58	(1936)	548
		2700-3800	Sol	Spec, H bond	Buswell	JACS	60	(1938)	2444
		1050-1800	-	Spec	Barnes	IEC	15	(1943)	659
		1750-3600	S,Sol	Spec, Assign	Richards	JCS	-	(1947)	1248
		700-3400	S	IR (polarized)	Mann	PRS	192	(1948)	489
		-	-	FC	Richards	TFS	44	(1948)	40
		-	-	Ident	Horning	JACS	74	(1952)	5151
		700-3500	S	Struct, Vib mode	Kuratani	BCSJ	25	(1952)	258
		650-1740	Sol	IR freq shift	Bellamy	JCS	-	(1955)	4221
		625-900	-	CH out of phase	Margoshes	SA	7	(1955)	14
		12-15μ	S	CH out of phase	Kross	JACS	78	(1956)	1332
		-	Sol	IR carbony freq, K band	Exner	CIL	-	(1958)	1174
		4000-420	-	Spec, Assign	Gray	DA	19	(1958)	454
		-	Sol	Freq, I, Splitting	Brown	JPC	63	(1959)	1324

		-	Sol	Freq	Horak	TEL	3	(1959)	19
		1300-3500	-	Shift, Stretch freq	Jones	CIL	-	(1959)	880
		-	-	Spec, Iso	Weckherlin	ZE	64	(1960)	1228
C_7H_7NO	Formanilide	-	Sol	Rotational iso, Freq	Suzuki	NKZ	80	(1959)	353
C_7H_7NO	p-Methylnitroso-benzene	-	S,Sol	Group freq, Assign	Nakamoto	JACS	78	(1956)	1113
C_7H_7NO	o-Nitrosotoluene	5-8 μ	-	CH derivatives	Depaigne	JPR	7	(1946)	33
C_7H_7NO	N-Phenylformamide	-	-	Ident	Horning	JACS	74	(1952)	5151
		-	L,S	Group freq	Robson	JACS	77	(1955)	498
		-	Sol	Band freq, Ext coeff, I	Russell	JCS	-	(1955)	483
		3 μ	Sol	Spec	Russell	SA	8	(1956)	138
		3100-3500	Sol	Struct	Suzuki	SA	16	(1960)	471
$C_7H_7NO_2$	2-Acetylpyridine-N-oxide	-	Sol	Band characteristic, Assign	Katritzky	JCS	-	(1958)	2182
$C_7H_7NO_2$	3-Acetylpyridine-N-oxide	-	Sol	Band characteristic, Assign	Katritzky	JCS	-	(1958)	2182
		800-3000	Sol	Spec, Freq, I	Katritzky	JCS	-	(1959)	3680
$C_7H_7NO_2$	4-Acetylpyridine-N-oxide	-	Sol	Band characteristic, Assign	Katritzky	JCS	-	(1958)	2182
		600-3000	Sol	Substitution effect	Katritzky	JCS	-	(1958)	2192
$C_7H_7NO_2$	m-Aminobenzoic acid	-	S	IR & UV Spec	Stimson	AC	26	(1954)	434
$C_7H_7NO_2$	o-Aminobenzoic acid	700-4000	S,Sol	Table	Flett	JCS	-	(1951)	962
		3-14 μ	S,Sol	Spec	Ebert	JACS	74	(1952)	2806
		-	S	IR & UV Spec	Stimson	AC	26	(1954)	434
		5.5-6.5 μ	Sol	Ident	Sawicki	AC	31	(1959)	523

$C_7H_7NO_2$	p-Aminobenzoic acid	-	Sol	Bond freq, Chem properties	Flett	TFS	44	(1948)	767
		700-4000	S,L, Sol	Table, Ext coeff	Flett	JCS	-	(1951)	962
		-	Sol	Dissociation const	Goulden	SA	6	(1954)	129
		-	S	IR & UV Spec	Stimson	AC	26	(1954)	434
		12-15 μ	S,Sol	Bending freq	Kross	JACS	78	(1956)	1332
		2600-800	Sol	NH Band study, Struct	Whetsel	AC	30	(1958)	1598
		600-900	L,Sol	CH out of phase	Yosida	CPBT	8	(1960)	389
$C_7H_7NO_2$	2-Amino-3-hydroxy-tropone	763-3448	S	Table	Johnson	JCS	-	(1955)	1841
$C_7H_7NO_2$	Anthranilic acid	1300-3400	S,L	Spec, Struct	Isherwood	N	75	(1955)	419
$C_7H_7NO_2$	2-Methyl-p-benzoquinone -4-oxime	700-3500	S	Struct	Philbrook	JOC	24	(1959)	568
$C_7H_7NO_2$	α-Cyano-γ-vinyl-γ-butyrolactone	3.4-8.6 μ	-	Table, Ident	Zuidema	JACS	75	(1953)	294
$C_7H_7NO_2$	N-Hydroxybenzamide	-	Sol	Spec, Freq	Exner	CIL	-	(1958)	1174
$C_7H_7NO_2$	3-Methoxy-2-pyridine-carboxaldehyde	650-4000	Sol,L	Spec, Freq, H bond	Heinert	JACS	81	(1959)	3933
$C_7H_7NO_2$	3-Methoxy-4-pyridine-carboxaldehyde	650-4000	Sol,L	Spec, Freq, H bond	Heinert	JACS	81	(1959)	3933
$C_7H_7NO_2$	Methyl picolinate	-	Sol	Band characteristic, Assign	Katritzky	JCS	-	(1958)	2182
$C_7H_7NO_2$	Methyl nicotinate	2-16 μ	Sol	Spec, Anal	Trenner	AC	23	(1951)	487
		-	-	Anal, Spec	Trenner	APS	7	(1953)	166
		600-3000	Sol	Assign, Symmetry	Katritzky	JCS	-	(1958)	2182
		-	Sol	Band characteristic, Assig	Katritzky	JCS	-	(1958)	3165

$C_7H_7NO_2$	Methyl isonicotinate	-	Sol	Band characteristic, Assign	Katritzky	JCS	-	(1958)	2182
$C_7H_7NO_2$	m-Nitrotoluene	1-8μ	L	Spec, Assign	Plyler	PR	35	(1930)	605
		3-4μ	L	Solvent effect	Williams	PR	50	(1936)	719
		5-8μ	-	CH derivatives	Depaigne	JPR	7	(1946)	33
		700-1000	S,Sol	Bending freq	Bellamy	JCS	-	(1955)	2818
		2-15μ	L	Spec, Anal	Pristera	AC	27	(1955)	217
		6-8μ	Sol	Freq, I	Conduit	JCS	-	(1959)	3273
		700-1700	Sol	I, Substitution of effect	Katritzky	JCS	-	(1959)	2058
$C_7H_7NO_2$	o-Nitrotoluene	1-8μ	L	Spec, Assign	Plyler	PR	35	(1930)	605
		-	-	Spec	High	PR	38	(1931)	1837
		0-2μ	L	Kerr effect in IR	Ingersoll	PR	44	(1933)	399
		-	-	Solvent effect	Gordy	JCP	7	(1939)	93
		-	-	Solvent effect	Gordy	JCP	7	(1939)	99
		-	L	Dispersion study	Davis	JOSA	30	(1940)	488
		5-8μ	-	CH derivatives	Depaigne	JPR	7	(1946)	33
		5-6μ	L	Spec	Gordy	AC	23	(1951)	709
		2-15.4μ	L	Spec, Anal	Pristera	AC	27	(1955)	217
		6-8μ	Sol	Freq, I	Conduit	JCS	-	(1959)	3273
		800-1600	-	I, Ext coeff	Katritzky	JCS	-	(1959)	3670
$C_7H_7NO_2$	p-Nitrotoluene	-	-	Spec	High	PR	38	(1931)	1837
		5-8μ	-	CH derivatives	Depaigne	JPR	7	(1946)	33
		3380	-	Exchang rate	Gore	AC	21	(1949)	382
		2-15.3μ	S	Spec, Anal	Pristera	AC	27	(1955)	217
		1300-1600	S,Sol	Struct	Kross	JACS	78	(1956)	4225
		6-8μ	Sol	Freq, I	Conduit	JCS	-	(1959)	3273
		2700-3000	G,L	Assign	Fuson	BSCF	-	(1959)	93
		700-1700	Sol	Freq, Assign	Katritzky	JCS	-	(1959)	2051
$C_7H_7NO_2$	N-Phenylhydroxamic acid	700-4000	S,Sol	Spec, H bond	Hadzi	SA	10	(1958)	38
$C_7H_7NO_2$	Phenylnitromethane	-	-	FC	Linnett	TFS	41	(1945)	223

$C_7H_7NO_2$	Pyridinebetaine	2-15μ	-	Freq, Struct anal	Rasmussen	JACS	71	(1949)	1073
$C_7H_7NO_2$	Salicylamide	6500-7100	Sol	Spec, H bond	Hilbert	JACS	58	(1936)	548
		1050-1800	-	Spec	Barnes	IEC	15	(1943)	659
$C_7H_7NO_2$	Salicylaldehyde oxime	6800-7200	-	Spec, H bond	Hendricks	JACS	58	(1936)	1991
		1050-1700	-	Spec	Barnes	IEC	15	(1943)	659
$C_7H_7NO_2.HCl$	p-Aminobenzoic acid hydrochloride	-	-	Ident	Flynn	JACS	75	(1953)	5867
$C_7H_7NO_2S$	2-(2'-Furyl)-4-thiazolidone	-	Sol	Bond freq	Pennington	JACS	75	(1953)	109
$C_7H_7NO_2S_2$	2-Pyrrylcarboxymethyl dithioacetate	400-4000	S,Sol	Spec, Freq	Bak	ACS	12	(1958)	1451
$C_7H_7NO_3$	3-Aminosalicylic acid	-	-	Ident	Tener	JACS	75	(1953)	3623
$C_7H_7NO_3$	2-Hydroxymethyl-1,4,5,6-tetrahydro-6-oxonicotinic acid lactone	2-16μ	S	Spec, Band freq	Ramirez	JOC	19	(1954)	183
$C_7H_7NO_3$	2-Methoxycarbonyl-pyridine-N-oxide	-	Sol	Band characteristic, Assign	Katritzky	JCS	-	(1958)	2182
		800-3000	Sol	I, Substitution effect	Katritzky	JCS	-	(1958)	2195
$C_7H_7NO_3$	3-Methoxycarbonyl-pyridine-N-oxide	-	Sol	Band characteristic, Assign	Katritzky	JCS	-	(1958)	2182
		800-3000	Sol	Spec, Freq, I	Katritzky	JCS	-	(1959)	3080
$C_7H_7NO_3$	4-Methoxycarbonyl-pyridine-N-oxide	-	Sol	Band characteristic, Assign	Katritzky	JCS	-	(1958)	2182
$C_7H_7NO_3$	m-Methoxynitrobenzene	900-3000	Sol	Group freq, Assign	Katritzky	JCS	-	(1959)	2062
		700-1700	Sol	I, Substitution effect	Katritzky	JCS	-	(1959)	2058
$C_7H_7NO_3$	o-Methoxynitrobenzene	800-1600	-	I, Ext coeff	Katritzky	JCS	-	(1959)	3670

$C_7H_7NO_3$	2-Methyl-6-oxynicotinic acid	2-16 μ	S	Spec, Ident	Ramirez	JOC	19 (1954)	183
$C_7H_7NO_3$	p-Nitroanisole	1300-1600	S,Sol	Struct	Kross	JACS	78 (1956)	4225
		700-1700	Sol	Freq, Assign	Katritzky	JCS	- (1959)	2062
		900-3000	Sol	Group freq, Assign	Katritzky	JCS	- (1959)	2062
$C_7H_7NO_3$	m-Nitrobenzyl alcohol	-	-	Substitution effect, Iso	Oki	BCSJ	32 (1959)	955
$C_7H_7NO_3$	p-Nitrobenzyl alcohol	-	-	Substitution effect, Iso	Oki	BCSJ	32 (1959)	955
$C_7H_7NO_5S$	Methyl p-nitrobenzenesulphonate	400-4000	Sol,S	Spec, Assign	Freeman	AJC	10 (1957)	239
C_7H_7NS	Thioformanilide	-	Sol	Freq, Iso	Suzuki	NKZ	80 (1959)	697
		3100-3500	Sol	Struct	Suzuki	SA	16 (1960)	471
$C_7H_7N_3$	3-Aminoindazole	3448-747	S	Struct, Freq	Aron	CIL	- (1958)	1234
$C_7H_7N_3$	1-Methylbenzotriazole	600-1800	S	Spec, Assign	Lefevre	AJC	6 (1953)	341
$C_7H_7N_3$	5-Methylbenzotriazole	650-1000	-	Freq	Binder	JACS	81 (1959)	3608
		-	S	Freq, H bond	O'Sullivan	JCS	- (1960)	3653
$C_7H_7N_3$	1-Phenyl-1-cyanohydrazine	-	S	Band freq	Mautner	JACS	77 (1955)	4076
$C_7H_7N_3O$	Benzenediazocarboxyamide	600-1800	S	Spec, Assign	Lefevre	AJC	6 (1953)	341
$C_7H_7N_3O$	5-Methoxybenzotriazole	650-1000	-	Freq	Binder	JACS	81 (1959)	3608
		-	S	Band freq, H bond	O'Sullivan	JCS	- (1960)	3653
$C_7H_7N_3O_3$	2-Acetamido-5-nitropyridine	-	L	Spec	Bogomolv	IANS	23 (1959)	1199

$C_7H_7N_5$	1-Phenyl-5-aminotetrazole	2-6 μ	S	Band freq	Murphy	JOC	19	(1954)	1807
$C_7H_7N_5O$	2-Amino-4-hydroxy-6-methylpteridine	800-4000	-	Spec, Ident	Hutchins	JACS	70	(1948)	10
		-	-	Iso	Dick	JCS	-	(1955)	1379
$C_7H_7N_5O$	2-Amino-4-hydroxy-7-methylpteridine	-	-	Iso	Dick	JCS	-	(1955)	1379
$C_7H_7O_3B$	Methyl-o-phenylene borate	6-14 μ	L,S	Assign, Struct	Blau	JCS	-	(1960)	380
C_7H_8	Bicyclo-[2,2,1]-2,5-heptadiene	-	L	Ident	Hine	JACS	77	(1955)	594
C_7H_8	Cycloheptatriene	3.31-14.02 μ	-	Ident, Table	Dryden	JACS	76	(1954)	2841
C_7H_8	6-Methylfulvene	1600-1650	Sol	Bond study	Wood	AC	30	(1958)	1339
C_7H_8	Toluene	8-2.0 μ	L	Magnetic rotation	Ingersoll	JOSA	6	(1922)	663
		0-2.5 μ	L	Spec	Ellis	PR	23	(1924)	48
		2-3 μ	L	Spectrothermograph	Ellis	JOSA	11	(1925)	647
		6-14 μ	L	Absorption, Spec	Ellis	PR	27	(1926)	298
		-	L	Photo reactions	Barnes	JACS	49	(1927)	2034
		877-714	L	Spec	Barnes	JOSA	15	(1927)	331
		2800-3175	G	Wave number	Meyer	JOSA	15	(1927)	257
		6-2.8 μ	L	IR	Ellis	PR	32	(1928)	906
		1.1-1.2 μ	L	Band shift	Barnes	JACS	51	(1929)	1750
		-	-	Bond freq	Bonino	TFS	25	(1929)	876
		3-4 μ	L	Spec, Absorption	Barnes	PR	36	(1930)	296
		3.1-3.6 μ	L	Spec, Freq	Barnes	PR	35	(1930)	1524
		84-95 μ	L	Pressure effect, Spec	Collins	PR	36	(1930)	305
		-	-	Spec	Kettering	PR	36	(1930)	531
		1-30 μ	G	Mech models for vib	Kettering	PR	4	(1933)	39
		1.1-1.8 μ	Sol	Spec	Liddel	JRNB	11	(1933)	599
		-	-	Freq assign	Teets	JCP	3	(1935)	175
		52-152 μ	Sol	Freq, Dispersion	Cartwright	PRS	154	(1936)	138

-	-	Thermo	Kassel	JCP	4	(1936)	276
3.2-3.5μ	Sol	Band freq	Wall	JACS	61	(1939)	1053
-	L	Magnetic double refraction	Davis	JOSA	30	(1940)	488
-	-	Hindered rotation	Langseth	JCP	8	(1940)	415
-		Spec, Anal	Gore	IEC	13	(1941)	768
850-1950	-	Absorption freq, Spec	Barnes	IEC	15	(1943)	659
-	-	Thermo, Freq	Pitzer	JACS	65	(1943)	803
-	-	Thermo	Brickwedde	JCP	13	(1945)	547
-	L	Anal	Fuoss	RSI	16	(1945)	53
-	-	FC	Linnett	TFS	41	(1945)	223
5-8μ	-	Benzene derivatives	Depaigne	JPR	7	(1946)	33
-	-	Anal	Fred	AC	18	(1946)	603
-	-	Vib freq	Taylor	JRNB	38	(1947)	1
12-14μ	Sol	Freq, I	Bell	PRS	192	(1948)	498
-	-	Anal,	Choppin	JACS	70	(1948)	2520
-	L	Absorption freq	Chulanovskii	IANS	12	(1948)	628
24-40μ	-	Absorption freq	Plyler	JCP	16	(1948)	1008
-	-	Anal	Saier	AC	28	(1948)	812
800-9000	Sol	Anal	Hibbard	AC	21	(1949)	486
-	-	Anal	Ipatieff	JACS	71	(1949)	2685
2-16μ	L,Sol	Spec, Table	Turkeerich	JACS	71	(1949)	4045
9-14μ	Sol	Freq, I, Dipole moment	Cole	TFS	46	(1950)	103
2-15μ	L	Spectrometer performance	Tetlow	JSI	28	(1951)	161
3.27-17μ	L	Quat anal	Tiers	JCP	19	(1951)	1072
2-6μ	L	Spec	Young	AC	23	(1951)	709
3.32-3.56μ	-	Group Anal	Hastings	AC	24	(1952)	612
-	Sol	IR, Chem, Binding	Mecke	JCP	20	(1952)	1935
-	Sol	Band freq, H bond	Tamres	JACS	74	(1952)	3375
700-900	-	Freq	Tiers	JCP	20	(1952)	761
-	-	Anal, Spec	Werber	JACS	74	(1952)	532
-	Sol	Anal	Williams	AC	24	(1952)	1911
200-275	Sol	Spec	Acquista	JOSA	43	(1953)	977
2-15μ	L	Spec	Anderson	JCP	21	(1953)	1258
-	-	Struct	Garg	JCP	21	(1953)	1907

		-	-	Ident	Doering	JACS	76	(1954)	6162
		640-1400	Sol	Spec	Haller	JCP	22	(1954)	720
		-	Sol	Absorption coeff, Anal	Kovacic	JACS	76	(1954)	5491
		-	-	Anal, I	Martin	AC	26	(1954)	1886
		-	-	Ident	Moore	JCS	-	(1954)	2089
		-	-	Ident	Noyce	JACS	76	(1954)	3630
		-	-	Anal	Hawkins	JCS	-	(1955)	1462
		625-900	-	Substituent effect	Margoshes	SA	7	(1955)	14
		900-1050	Sol	Rocking mode freq	Randle	JCS	-	(1955)	3497
		12-15 μ	L,Sol	CH out of phase	Kross	JACS	78	(1956)	1332
		-	Sol	Band I	Randle	TFS	52	(1956)	9
		3-4 μ	L,Sol	Stretch freq	Tallent	AC	28	(1956)	953
		-	-	Solvent effect	Goddu	AC	29	(1957)	1790
		-	-	Freq	Podall	AC	29	(1957)	1423
		2-30 μ	G,L	Spec, Assign	Wilmshurst	CJC	35	(1957)	911
		4000-600	Sol	Group freq	Katritzky	JCS	-	(1958)	4155
		-	-	Solvent effect	Matheson	AC	30	(1958)	63
		3000-2700	Sol	Spec, Steric effect	Badger	SA	15	(1959)	672
		15-35 μ	S	Spec, Struct	Bentley	SA	15	(1959)	165
		2700-3000	G,L	Assign	Fuson	BSCF	-	(1959)	93
		8.9-9.92 μ	Sol	Anal	Jakobsen	AC	31	(1959)	1600
		-	-	CH out of phase	Kakiyuchi	NKZ	80	(1959)	28
		600-1700	L	Spec	Lecompte	CPR	249	(1959)	2443
		3400-3800	Sol	H bond	West	JACS	81	(1959)	1614
		600-4800	G,L	Assign, I	Fuson	SA	16	(1960)	106
		2-15 μ	L	Spec, Struct	Hawkes	SA	16	(1960)	633
		1375-1530	Sol	Struct, Ext coeff	Moritz	SA	16	(1960)	74
$C_7H_8BrNO_2S$	p-Bromophenylmethane-sulfonamide	900-3350	Sol	Freq, Ext coeff, Assign	Katritzky	JCS	-	(1960)	4497
C_7H_8ClN	p-chloro-N-methyl-aniline	-	L	FC, Freq	Hadzi	JCS	-	(1957)	843
C_7H_8ClNO	3-Chloro-5-methoxy-aniline	-	Sol	Freq	Bryson	JACS	82	(1960)	4858

$C_7H_8ClNO_2S$	p-Chlorophenylmethane-sulfonamide	900-3350	Sol	Freq, Ext coeff, Assign	Katritzky	JCS	-	(1960)	4497
$C_7H_8ClNO_2S$	4-Methylsulfonyl-1-amino-2-chlorobenzene	-	-	Spec	Meriam	HCA	43	(1960)	1122
$C_7H_8ClN_3S$	4-p-Chlorophenylthio-semicarbazide	700-1700	S	Spec, Struct, Assign, Taut	Lieber	CJC	36	(1958)	801
$C_7H_8Cl_2Si$	Methylphenyldichloro-silane	400-5000 2-30 μ	Sol Sol	Ident Spec, Struct, Anal	Smith Grenoble	AC APS	31 14	(1959) (1960)	1174 85
$C_7H_8F_3I$	6,6,6-Trifluoro-2-iodo-4-methylhexa-2,4-diene	-	-	Group freq	Needham	JCS	-	(1954)	1634
$C_7H_8F_6O$	1,1,2,3,3,3-Hexafluoro-propyl n-propyl Ketone	-	-	Bond freq	Lazerte	JACS	77	(1955)	910
$C_7H_8I_2O_2$	Dimethyl-4-pyrone-iodine	-	Sol	Band freq	Glusker	JCS	-	(1955)	471
$C_7H_8N_2$	1,4-Dicyano-2-methyl-2-butene	-	-	Bond freq	Kitson	AC	24	(1952)	334
$C_7H_8N_2$	1,4-Dicyano-3-methyl-1-butene	-	-	Bond freq	Kitson	AC	24	(1952)	334
$C_7H_8N_2$	2,5-Dimethyl-4-cyano-pyrrole	500-4000	Sol	Spec, Struct, Stretch freq	Eisner	JCS	-	(1958)	971
$C_7H_8N_2$	5-Methylbenzimidazole	650-1000	-	Freq	Binder	JACS	81	(1959)	3608
$C_7H_8N_2O$	2-Acetylaminopyridine	-	Sol	I, Assign, Struct	Katritzky	JCS	-	(1959)	2067
$C_7H_8N_2O$	3-Acetylaminopyridine	600-3000 -	Sol Sol	Vib assign, Symmetry I assign, Struct	Katritzky Katritzky	JCS JCS	- -	(1958) (1959)	3165 2067

$C_7H_8N_2O$	4-Acetylaminopyridine	-	Sol	I Assign, Struct	Katritzky	JCS	-	(1959)	2067
$C_7H_8N_2O$	N-Aminobenzamide	-	Sol	IR Carbon-1 freq, K Band freq	Exner	CIL	-	(1958)	1174
$C_7H_8N_2O$	2-Hydrazinotropone	-	Sol	Band freq	Bryant	JOC	19	(1954)	1889
$C_7H_8N_2O$	N-Methyl-N'-phenyl-diimide-N'-monoxide	1800-800	L,S, Sol	Freq, Assign	George	CJC	37	(1959)	679
$C_7H_8N_2O$	N-Nitroso-N-methyl aniline	2-15 μ	L	Spec	Earl	JCS	-	(1951)	2207
$C_7H_8N_2O$	N-Phenylurea	1250-17000	-	Spec	Barnes	IEC	15	(1943)	659
$C_7H_8N_2O$	Salicylaldehydehydrazone	6200-6900	Sol	Spec, H bond	Hendricks	JACS	58	(1936)	1991
$C_7H_8N_2O_2$	α-Acetamidopyridine -N-Oxide	800-3000	Sol	Substituent effect, I	Katritzky	JCS	-	(1958)	2195
		-	Sol	I, Assign, Struct	Katritzky	JCS	-	(1959)	2067
$C_7H_8N_2O_2$	α-Acetoxyglutaronitrile	-	-	Ident, Band study	Smith	JACS	73	(1951)	5282
$C_7H_8N_2O_2$	3-Acetylaminopyridine -N-Oxide	-	Sol	I assign, Struct	Katritzky	JCS	-	(1959)	2067
$C_7H_8N_2O_2$	4-Acetylaminopyridine -N-Oxide	-	Sol	I assign, Struct	Katritzky	JCS	-	(1959)	2067
$C_7H_8N_2O_2$	o-Anthranoylhydroxylamine	-	S	Freq	Freeman	JACS	80	(1958)	5954
$C_7H_8N_2O_2$	N-Methyl-o-nitroaniline	3500-3200	Sol	Freq	Moritz	SA	15	(1959)	242
$C_7H_8N_2O_2$	N-Methyl-p-nitroaniline	1300-1600	S,Sol	Struct	Kross	JACS	78	(1956)	4225
		700-1700	Sol	Freq assign, Substituent effect	Katritzky	JCS	-	(1959)	2051
$C_7H_8N_2O_2$	N-Methyl-N'-phenyl diimide dioxide	1600-600	L,S, Sol	Freq, Assign	George	CJC	37	(1959)	679

$C_7H_8N_2O_2$	2-Nitro-3-methyl-aniline	3600-1250	Sol	Freq , H bond	Dyall	AJC	11	(1958)	513
		-	Sol	Freq , H bond	Dyall	CIL	-	(1958)	262
		3000-3600	Sol	Freq	Hambly	AJC	11	(1958)	529
$C_7H_8N_2O_2$	2-Nitro-6-methyl-aniline	3600-1250	Sol	Freq, H bond	Dyall	AJC	11	(1958)	513
		-	Sol	Freq , H bond	Dyall	CIL	-	(1958)	262
		3000-3600	Sol	Freq	Hambly	AJC	11	(1958)	529
$C_7H_8N_2O_2$	5-Nitro-o-toluidine	700-1800	L,S	Struct freq, I	Randle	JCS	-	(1952)	4153
$C_7H_8N_2O_3$	2-Nitro-3-methoxy-aniline	3600-1250	Sol	Freq , H bond	Dyall	AJC	11	(1958)	513
		-	Sol	Freq , H bond	Dyall	CIL	-	(1958)	262
		3000-3600	Sol	Freq	Hambly	AJC	11	(1958)	529
$C_7H_8N_2O_3$	2-Nitro-4-methoxy-aniline	3600-1250	Sol	Freq , H bond	Dyall	AJC	11	(1958)	513
		3000-3600	Sol	Freq	Hambly	AJC	11	(1958)	529
$C_7H_8N_2O_3$	2-Nitro-6-methoxy-aniline	3600-1250	Sol	Freq , H bond	Dyall	AJC	11	(1958)	513
		-	Sol	Freq , H bond	Dyall	CIL	-	(1958)	262
		3000-3600	Sol	Freq	Hambly	AJC	11	(1958)	529
$C_7H_8N_2O_3$	3-Methoxy-5-nitroaniline	-	Sol	Freq	Bryson	JACS	82	(1960	4858
$C_7H_8N_3O$	2,5-Dimethyl-4-cyano-pyrrole-3-oxime	500-4000	S	Spec, Freq , Struct	Eisner	JCS	-	(1958)	971
$C_7H_8N_4$	1-α-Pyridyl-2-azido-ethane	2-16 μ	Sol	Spec	Boyer	JACS	73	(1951)	5248
$C_7H_8N_4O$	1,6-Dihydro-1,7-dimethyl-6-oxopurine	-	Sol	Freq , Spec, Struct	Brown	JCS	-	(1957)	682
$C_7H_8N_4O$	7,8-Dihydro-7,9-dimethyl-8-oxopurine	-	Sol	Freq , Spec, Struct	Brown	JCS	-	(1957)	682
$C_7H_8N_4O_2$	N-Phenyl-N'-nitroguanidine	2-15 μ	-	Spec, Freq	Lieber	AC	23	(1951)	1594

$C_7H_8N_4O_2$	Theobromine	2-15μ	S	Spec	Blout	JACS	72	(1950)	479
$C_7H_8N_4O_2$	Theophylline	2-15μ	S	Spec	Blout	JACS	72	(1950)	479
$C_7H_8N_4O_7$	Methylamine picrate	-	-	Ident	Snyder	JACS	76	(1954)	2819
$C_7H_8N_6O_7$	Guanidine picrate	-	S	IR	Mitchell	JACS	65	(1943)	128
C_7H_8O	Anisole	-	-	Bond freq	Bonino	TFS	25	(1929)	876
		850-2000	-	Absorption freq, Spec	Barnes	IEC	15	(1943)	659
		3-20μ	L	Spec	Torkington	TFS	41	(1945)	184
		5-8μ	-	Benzene derivatives	Depaigne	JPR	7	(1946)	33
		5-6μ	L	Spec	Young	AC	23	(1951)	709
		2-12μ	Sol	Spec, Struct	O'Connor	JACS	76	(1954)	2368
		-	Sol	Anal	Detar	JACS	77	(1955)	1745
		625-900	-	Substitution effect	Margoshes	SA	7	(1955)	14
		12-15μ	L,Sol	Bending freq shift	Kross	JACS	78	(1956)	1332
		700-5000	L,Sol	Group freq	Briggs	AC	29	(1957)	904
		-	-	Group study	Henbest	JCS	-	(1957)	1462
		-	-	Solvent effect	Pinchas	AC	29	(1957)	334
		400-600	Sol	Substitution effect	Katritzky	JCS	-	(1958)	4155
		-	Sol	Assign, Freq shift	Flaig	A	626	(1959)	215
		-	-	Vib, Freq assign	Kakiyuchi	NKZ	80	(1959)	28
		900-3000	Sol	Group freq, Assign	Katritzky	JCS	-	(1959)	2062
		1000-1700	Sol	Band study, Ident	Buckles	JACS	82	(1960)	2444
		700-4000	Sol,L	Freq, Extinction coeff	Maine	CJC	38	(1960)	1921
C_7H_8O	Benzyl alcohol	2800-3800	L,Sol	Spec, H bond	Bushwell	JCP	5	(1937)	501
		2.5-3.9μ	Sol	Spec, I	Fox	PRS	162	(1937)	419
		2837-3175	Sol	Band freq	Errera	TFS	34	(1938)	728
		2990-2830	Sol	Spec, Ext coeff	Fox	PRS	167	(1938)	257
		2.7-2.9μ	Sol	Spec, Anal	Davies	JCP	8	(1940)	577
		2.66-3.3μ	L,Sol	Spec, H bond	Fox	TFS	36	(1940)	897
		2400-3800	Sol	Spec	Muller	IEC	13	(1941)	667
		2400-3600	L,Sol	Spec	Barnes	IEC	15	(1943)	659
		-	-	FC	Linnett	TFS	41	(1945)	223
		2.65-2.9μ	Sol	Spec	Bushwell	JACS	69	(1947)	770

		700-1500	L	Spec, Assign	Richards	JCS	-	(1947)	1260
		-	L	Band diagram	Thompson	JCS	-	(1947)	289
		97-1.93μ	-	Spec	Ciccone	NC	6	(1948)	489
		-	-	FC	Richards	TFS	44	(1948)	40
		3.2-3.6μ	-	Spec anal	Saier	AC	20	(1948)	812
		-	-	H bond	Coggeshall	JCP	18	(1950)	978
		3.2-2.7μ	Sol	H bond, Spec, Equil const	Coggeshall	JACS	73	(1951)	5414
		665-5000	L	Bond freq	Zeiss	JACS	75	(1953)	897
		2-12μ	Sol	Spec, Struct	O'Conner	JACS	76	(1954)	2368
		-	Sol	Anal	Deyar	JACS	77	(1955)	1745
		625-900	-	Substituent effect	Margoshes	SA	7	(1955)	14
		3680-3460	Sol	H bond absent	McDonald	JCP	23	(1955)	117
		12-15μ	L,Sol	Bend freq shift	Kross	JACS	78	(1956)	1332
		3μ	Sol	H bond, Freq	Flett	SA	10	(1958)	21
		1.4μ	Sol	H bond, I	Goldman	JOC	23	(1958)	751
		4000-600	Sol	Substitution effect	Katritzky	JCS	-	(1958)	4155
		3570-3700	Sol	H bond, Freq, I	Flynn	AJC	12	(1959)	575
		-	-	Band assign	Michinori	BCSJ	32	(1959)	950
		700-4000	L,Sol	Freq, Ext coeff	DeMaine	CJC	38	(1960)	1921
C_7H_8O	Bicyclo-[3,2,0]-2-hepten-6-one	2-16μ	Sol	Spec, Carbonyl band	Roberts	JACS	74	(1952)	2278
C_7H_8O	m-Cresol	700-1300	Sol	Spec, Anal, Assign	Whiffen	JCS	-	(1945)	268
		700-1200	Sol	Spec	Whiffen	TFS	41	(1945)	200
		5-8μ	-	Benzene derivatives	Depaigne	JPR	7	(1946)	33
		-	Sol	Anal, Beer's Law	Friedel	AC	22	(1950)	418
		-	Sol	Anal, Iso	Knapp	AC	22	(1950)	1408
		2.5-15μ	Sol	Spec, Band freq, Table, I	Friedel	JACS	73	(1951)	2881
		2.84μ	Sol	Anal	Simard	AC	23	(1951)	1384
		3μ	Sol	Stretch freq, Hammeth const	Ingraham	JACS	74	(1952)	2297
		-	-	Anal	Meissner	JACS	74	(1952)	1000
		-	-	Ident	Vanmeter	AC	24	(1952)	1758
		-	-	Absorption study	Bomstein	AC	25	(1952)	512
		11-14μ	Sol	Spec, Anal	Fair	AC	27	(1955)	1886
		-	Sol	Bending freq	Bellamy	JCS	-	(1955)	2818

		-	Sol	Impurity study	Kamada	JA	4	(1955) 545
		1650-2000	-	Bending freq, Assign	Whiffen	SA	7	(1955) 253
		-	Sol	Freq	Bavin	CJC	35	(1957) 1555
		-	Sol	Stretch freq, Hammeth const	Baker	JPC	62	(1958) 744
		3570-3700	Sol	Freq, H bond, I	Flynn	AJC	12	(1959) 575
		700-1700	Sol	Position shift, I	Katritzky	JCS	-	(1959) 2058
		3500-3000	Sol	Freq , Hammeth const	Puttnam	JCS	-	(1960) 5100
		640-1400	Sol	Spec	Shrewsbury	SA	16	(1960) 1294
C_7H_8O	o-Cresol	6900-7200	Sol	Band freq	Wulf	JACS	58	(1936) 2287
		700-1300	Sol	Spec, Anal, Assign	Whiffen	JCS	-	(1945) 268
		700-1200	Sol	Spec	Whiffen	TFS	41	(1945) 200
		5-8μ	-	CH derivatives	Depaigne	JPR	7	(1946) 33
		5-15μ	L,S	Spec	Kletz	JCS	-	(1947) 644
		-	-	Anal	Ciccone	NC	6	(1950) 500
		-	Sol	Anal, Beer's Law	Friedel	AC	22	(1950) 418
		-	Sol	Anal, Iso	Knapp	AC	22	(1950) 1408
		2.5-15μ	Sol	Spec, Band freq, Table, I	Friedel	JACS	73	(1951) 2881
		2.84μ	Sol	Anal	Simard	AC	23	(1951) 1384
		-	-	Anal	Meissner	JACS	74	(1952) 1000
		8-15μ	Sol	Spec, Anal	Vanmeter	AC	24	(1952) 1758
		-	-	Absorbance study	Bomstein	AC	25	(1953) 512
		11-14μ	Sol	Spec, Anal	Fair	AC	27	(1955) 1886
		-	Sol	Impurity determination	Kamada	JA	4	(1955) 545
		1650-2000	-	CH bending vib, Freq assign	Whiffen	SA	7	(1955) 253
		-	Sol	Freq	Bavin	CJC	35	(1957) 1555
		3100-3550	Sol	H bond	Lund	ACS	12	(1958) 298
		3570-3700	Sol	Freq, I, H bond	Flynn	AJC	12	(1959) 575
		800-1600	-	I, Ext coeff	Katritzky	JCS	-	(1959) 3670
		-	Sol	Spec	Goddu	JACS	82	(1960) 4533
		900-1300	Sol	Freq	Puttnam	JCS	-	(1960) 2934
		3500-3800	Sol	Freq, Hammett const	Puttnam	JCS	-	(1960) 5100
		-	Sol	Chemical shift, H bond	Reeves	CJC	38	(1960) 1249
		650-1400	Sol	Spec	Shrewsbury	SA	16	(1960) 1294

C_7H_8O	p-Cresol	-	-	Electric moment	Williams	CR	6	(1929)	589
		700-1300	Sol	Spec, Anal, Assign	Wiffen	JCS	-	(1945)	268
		700-1200	Sol	Spec	Wiffen	TFS	41	(1945)	200
		5-8μ	-	CH derivatives	Depaigne	JPR	7	(1946)	33
		-	-	Freq shift	Coggeshall	JACS	69	(1947)	1620
		5-15μ	L,Sol	Spec, Table	Kletz	JCS	-	(1947)	644
		2.2-3.6μ	Sol	Spec	Hukins	JCS	-	(1949)	898
		3μ	L,S, Sol	H bond	Sears	JACS	71	(1949)	4110
		-	-	Anal	Ciccone	NC	6	(1950)	500
		-	Sol	Anal, Beer's Law	Friedel	AC	22	(1950)	418
		-	Sol	Anal, Iso	Knapp	AC	22	(1950)	1408
		2.5-15μ	Sol	Spec, Table, I, Band freq	Friedel	JACS	73	(1951)	2881
		2-14μ	Sol	Spec	Robinson	AC	23	(1951)	273
		2.84μ	Sol	Anal	Simard	AC	23	(1951)	1384
		-	G	Freq	Imanishi	JCP	20	(1952)	532
		3μ	Sol	Stretch freq, Hammett const	Ingraham	JACS	74	(1952)	2297
		-	-	Anal	Meissner	JACS	74	(1952)	1000
		-	-	Ident	Vanmeter	AC	24	(1952)	1758
		-	-	Band freq, Absorbance	Bomstein	AC	25	(1953)	512
		-	Sol	Dissociation const	Goulden	SA	6	(1954)	129
		11-14μ	Sol	Spec, Anal	Fair	AC	27	(1955)	1886
		-	Sol	Impurity determination	Kamada	JA	4	(1955)	545
		1650-2000	-	C-H bending vib, Freq assign	Whiffen	SA	7	(1955)	253
		-	Sol	Stretch freq	Baker	JPC	62	(1958)	744
		3μ	Sol	Freq , H bond	Flett	SA	10	(1958)	21
		3100-3550	Sol	H bond	Lund	ACS	12	(1958)	298
		3μ	Sol	Bond dipole and length, I	Moccia	PRS	243	(1958)	154
		-	Sol	Substitution effect	Stone	SA	10	(1958)	17
		3570-3700	Sol	Freq, I, H bond	Flynn	AJC	12	(1959)	575
		2700-3000	G,L	Assign	Fuson	BSCF	-	(1959)	93
		3500-3800	Sol	Freq, Hammett const	Puttnam	JCS	-	(1960)	5100
		650-1400	Sol	Spec	Shrewsbury	SA	16	(1960)	1294

C_7H_8O	Cycloheptadien-2,4-one	-	L	Ident	Meinwald	JACS	77	(1955)	4401
C_7H_8O	Cycloheptadien-3,5-one	2-15μ	S	Spec	Meinwald	JACS	77	(1955)	4401
C_7H_8O	Hept-2-en-6-ynal	-	-	Bond freq	Shaw	JCS	-	(1954)	3217
C_7H_8OS	5-Methyl-2-acetyl-thiophene	-	-	Spec	Otsuji	NKZ	80	(1959)	1199
C_7H_8OS	Methyl phenyl sulfoxide	7-10μ	Sol	Freq assign	Haszeldine	JCS	-	(1955)	2901
$C_7H_8O_2$	2,6-Dimethylpyrone		-	Interchange study	Lord	AC	26	(1954)	429
		1400-1700	S	Assign	Tsubomura	JCP	28	(1958)	355
$C_7H_8O_2$	Hept-2-en-6-ynoic acid	-	-	Group freq	Shaw	JCS	-	(1954)	3217
$C_7H_8O_2$	trans-5-Hepten-3-ynoic acid	-	Sol	Group freq, I	Allan	JCS	-	(1954)	1874
$C_7H_8O_2$	o-Hydroxybenzyl alcohol	2.7-3.1μ	Sol	Spec	Davies	TFS	36	(1940)	1114
		3100-3700	S,Sol	Spec, Assign	Richards	JCS	-	(1947)	1260
		-	Sol	Spec	Martin	N	166	(1950)	474
		-	Sol	Anal	Smith	AC	24	(1952)	497
$C_7H_8O_2$	p-Hydroxybenzyl alcohol	-	-	Ident	Martin	JACS	74	(1952)	4208
		-	-	Ident	Martin	JACS	74	(1952)	3024
$C_7H_8O_2$	m-Methoxyphenol	-	Sol	Stretch freq, Hammett const	Baker	JPC	62	(1958)	744
		-	Sol	Substitution effect	Stone	SA	10	(1958)	17
		3570-3700	Sol	H bond, Freq, I	Flynn	AJC	12	(1959)	575
		700-1700	Sol	Position shift, I	Katritzky	JCS	-	(1959)	2058
		900-3000	Sol	Group freq, Assign	Katritzky	JCS	-	(1959)	2062
		3500-3800	Sol	Freq , Hammett const	Puttnam	JCS	-	(1960)	5100
$C_7H_8O_2$	o-Methoxyphenol	6000-1700	Sol	Band freq	Wulf	JACS	58	(1936)	2287
		-	-	Absorption band	Wulf	JCP	6	(1938)	702
		750-1950	-	Absorption freq, Spec	Barnes	IEC	15	(1943)	659
		600-1400	Sol	Spec, Anal	Rosenwald	JACS	74	(1952)	4602

		-	Sol	H bond	Tsuboi	BCSJ	25	(1952)	60
		8-13 μ	-	Spec, Struct	Klemm	JACS	76	(1954)	1688
		-	Sol	Freq	Bavin	CJC	35	(1957)	1555
		700-5000	L	Group freq	Briggs	AC	29	(1957)	904
		2.7-3.0 μ	Sol	H bond	Baker	JACS	80	(1958)	5358
		800-1600	-	Ext coeff, I	Katritzky	JCS	-	(1959)	3670
		900-1500	-	Spec, H bond	Lindberg	SK	32b	(1959)	193
		3500-3800	Sol	Freq , Hammett const	Puttnam	JCS	-	(1960)	5100
		-	Sol	H bond, Chemical shift	Reeves	CJC	38	(1960)	1249
$C_7H_8O_2$	p-Methoxyphenol	3 μ	S,L, Sol	H bond	Sears	JACS	71	(1949)	4110
		3 μ	L,Sol	H bond, Hammett const	Ingraham	JACS	74	(1952)	2297
		-	-	Dissociation const	Goulden	SA	6	(1954)	129
		-	Sol	Stretch freq, Hammett const	Baker	JPC	62	(1958)	744
		3 μ	Sol	Freq , H bond	Flett	SA	10	(1958)	21
		900-3000	Sol	Freq assign	Lagrange	SA	12	(1958)	305
		-	Sol	Substituent effect	Stone	SA	10	(1958)	17
		3570-3700	Sol	Freq, I, H bond	Flynn	AJC	12	(1959)	575
		3500-3800	Sol	Freq , Hammett const	Puttnam	JCS	-	(1960)	5100
$C_7H_8O_2$	4-Methylcatechol	3 μ	Sol	Stretch freq, Hammett const	Ingraham	JACS	74	(1952)	2297
$C_7H_8O_2$	Methyl cis-2-hexene-4-ynoate	-	Sol	Group freq, I	Allan	JCS	-	(1955)	1874
$C_7H_8O_2$	Methyl trans-2-hexene-4-yonate	-	Sol	Group freq, I	Allan	JCS	-	(1955)	1874
$C_7H_8O_2$	Methyl cis-4-hexene-2-yonate	-	Sol	Group freq, I	Allan	JCS	-	(1955)	1874
$C_7H_8O_2$	Methyl trans-4-hexene-2-yonate	-	Sol	Group freq, I	Allan	JCS	-	(1955)	1874

$C_7H_8O_2S$	Ethyl 2-theonate	800-2000	L	Position & I of bands	Katritzky	JCS	-	(1959)	3500
		800-1500	Sol	Band assign	Katritzky	SA	16	(1960)	954
		-	-	Band characteristics, Assign	Katritzky	SA	16	(1960)	964
$C_7H_8O_2S$	Phenyl methyl sulfone	1080-1350	L,S, Sol	Spec, Table, H bond	Barnard	JCS	-	(1949)	2442
		700-3000	L	Spec, Struct, H bond	Detoni	JCS	-	(1955)	3163
		-	Sol	Freq	Rogers	JACS	78	(1956)	1790
		-	S,Sol	Substituent effect	Momose	CPBT	6	(1958)	412
$C_7H_8O_2S$	Toluene-p-sulphinic acid	700-3300	S,Sol	Spec, Struct assign, H bond	Detoni	JCS	-	(1955)	3163
		600-4000	S	Group study	Braunholtz	JCS	-	(1959)	868
$C_7H_8O_2Se$	p-Totylselenous acid	600-4000	S,Sol	Group presence study	Braunholtz	JCS	-	(1959)	868
$C_7H_8O_3$	Ethyl 2-furoate	800-1700	Sol	Freq assign	Katritzky	JCS	-	(1959)	657
		800-1500	Sol	Band assign	Katritzky	SA	16	(1960)	954
		-	-	Band study, Assign	Katritzky	SA	16	(1960)	964
$C_7H_8O_3$	2-Formylcyclohexane-1, 3-dione	-	L,S	Band freq	Rogers	JCS	-	(1955)	341
$C_7H_8O_3$	4-Keto-2-methylcyclo-pent-2-ene-1-carboxylic acid	-	-	Group freq, Struct	Acheson	JCS	-	(1952)	1127
$C_7H_8O_3$	4-Methoxycatechol	3 μ	Sol	Stretch freq, Hammett const	Ingraham	JACS	74	(1952)	2297
$C_7H_8O_3$	Methyl m-hydroxy-benzoate	-	L,Sol	Group freq	Duncanson	JCS	-	(1953)	1331
$C_7H_8O_3$	Methyl salicylate	-	Sol	H bond	Tsuboi	BSCJ	25	(1952)	60
$C_7H_8O_3S$	p-Hydroxyphenyl methyl sulfone	-	S,Sol	Substituent effect	Momose	CPBT	6	(1958)	412

$C_7H_8O_3S$	o-Methoxybenzene-sulphinic acid	700-3000	S,Sol	Spec, Struct assign, H bond	Detoni	JCS	-	(1955)	3163
$C_7H_8O_3S$	Methyl benzene-sulphonate	400-3500	L	Freq, Assign	Ham	AJC	6	(1953)	135
		400-4000	L	Spec, Assign	Freeman	AJC	10	(1957)	239
$C_7H_8O_3S$	p-Toluenesulfonic acid	1000-1500	Sol	Spec	Schreiber	AC	21	(1949)	1168
		2-11 μ	S	Spec	Waldock	JPC	56	(1952)	654
$C_7H_8O_3S.H_2O$	p-Toluenesulfonic acid hydrate	800-1620	S	Band freq	Trpson	JACS	74	(1952)	1354
$C_7H_8O_4$	Allyl fumarate	2-15 μ	L	Assign, Generalisation	Walton	JACS	79	(1957)	3985
$C_7H_8O_4$	β-Acetyl-α-methoxy-$\Delta^{\alpha,\beta}$ butenolide	-	L	Band freq	Grove	JCS	-	(1951)	883
$C_7H_8O_4$	4-Carboxy-4-hydroxy-2,3-dimethylbut-2-enoic lactone	732-2747	S	Table, Group freq	Ames	JCS	-	(1954)	375
$C_7H_8O_4$	Isopropylacetylene-dicarboxylate	2-15 μ	L	Spec, Assign, Generalisation	Walton	JACS	79	(1957)	3985
$C_7H_8O_5$	5-Dehydroshikimic acid	700-5000	S	Spec	Weiss	JACS	75	(1953)	5572
$C_7H_8O_6$	Diacetoxyacrylic acid	2.84-12.5 μ	Sol	Table, Group freq, I	Goodwin	JACS	76	(1954)	5599
C_7H_8S	Benzylmercaptan	6-2.8 μ	L	Bond study	Ellis	JACS	50	(1928)	2113
		2.75-4.25 μ	L	Bond freq	Williams	PR	54	(1938)	504
		3.5-4.5 μ	Sol	H bond	Gordy	JACS	62	(1940)	497
		-	-	Thermo	Brickwedde	JCP	13	(1945)	547
		-	-	Bond freq	Sheppard	TFS	46	(1950)	429
C_7H_8S	p-Mercaptotoluene	2700-3000	G,L	Assign	Fuson	BSCF	-	(1959)	93

C_7H_9Br	2-Bromobicyclo[2,2,1] heptene-2	3.2-15.9 μ	-	Table, I	Kwart	JACS	76	(1954) 4072
C_7H_9Br	5-Bromobicyclo[2,2,1] heptene-2	-	-	Group freq	Mcbee	JACS	77	(1955) 915
C_7H_9Br	7-Bromobicyclo[2,2,1] heptene-2	3.2-14.6 μ	-	Table, I	Kwart	JACS	76	(1954) 4072
C_7H_9Br	3-Bromotricyclo[2,2,1 $0^{2,6}$]-heptane	2.5-15 μ	Sol	Spec	Roberts	JACS	72	(1950) 3116
C_7H_9Br	7-Bromotricyclo[2,2,1, $0^{2,6}$]-heptane	-	-	Solvolysis rate	Roberts	JACS	72	(1950) 3329
		3.3-15 μ	-	Table I	Kwart	JACS	76	(1954) 4072
C_7H_9Br	endo-Dehydronorbornyl bromide	-	-	Solvolysis rate	Roberts	JACS	72	(1950) 3329
C_7H_9BrO	Cyclopropylmethyl-bromoethynylcarbinol	-	-	Weak band	McLamore	JOC	20	(1955) 109
C_7H_9BrO	Ethylvinylbromoethynyl-carbinol	-	-	Weak band	McLamore	JOC	20	(1955) 109
C_7H_9BrO	Methyl α-methylvinyl-bromoethynylcarbinol	-	-	Weak band	McLamore	JOC	20	(1955) 109
C_7H_9Cl	5-Chlorobicyclo[2,2,1]-2-heptene	-	-	Group freq	Mcbee	JACS	77	(1955) 915
C_7H_9Cl	anti-7-Chloronorborene	2-16 μ	Sol	Spec	Roberts	JACS	76	(1954) 5692
C_7H_9Cl	syn-7-Chloronorborene	2-16 μ	Sol	Spec	Roberts	JACS	76	(1954) 5692
C_7H_9Cl	endo-Dehydronorbornyl chloride	2.5-15 μ	Sol	Spec, Solvolysis rate	Roberts	JACS	72	(1950) 3329

C_7H_9Cl	exo-Dehydronorbornyl chloride	2.5-15 μ	Sol	Spec, Solvolysis rate	Roberts	JACS	72 (1950) 3329
C_7H_9Cl	Nortricyclyl chloride	2-16 μ	Sol	Spec, Characteristic freq	Roberts	JACS	76 (1954) 4623
		-	-	Ident	Roberts	JACS	76 (1954) 5692
C_7H_9ClO	Cyclopropylmethyl-chloroethynylcarbinol	-	-	Weak band	McLamore	JOC	20 (1955) 109
C_7H_9ClO	Ethylvinylchloro-ethynylcarbinol	-	-	Weak band	McLamore	JOC	20 (1955) 109
$C_7H_9ClF_2O_3$	1,3,3-Trimethoxy-2-chloro-4,4-difluorocyclo-butene-1	2.5-15 μ	L,Sol	Spec, Struct	Park	JACS	73 (1951) 2342
C_7H_9ClSi	o-Chlorobenzylsilane	2-16 μ	Sol	Freq, Vib	Kniseley	SA	15 (1959) 651
C_7H_9ClSi	m-Chlorophenylmethyl-silane	2050-2250	Sol	Struct, Freq	Smith	SA	1 (1959) 412
C_7H_9ClSi	p-Chlorophenylmethyl-silane	2050-2250	Sol	Struct, Freq	Smith	SA	15 (1959) 412
C_7H_9ClSi	Methylphenylchloro-silane	2050-2250	Sol	Struct, Freq	Smith	SA	15 (1959) 412
		400-4000	Sol	Freq, Spec, Struct	Smith	SA	16 (1960) 87
$C_7H_9Cl_2F_3O$	1-n-Butoxy-1,2-dichloro-3,3,3-trifluoro-1-propene	2-15 μ	L	Spec, Struct	Park	JACS	74 (1952) 4104
$C_7H_9Cl_3F_4Si$	2,2,3,3-Tetrafluoro-cyclobutylpropyl-trichlorosilane	10.85-11.1 μ	-	Freq	Park	JOC	25 (1960) 1628
$C_7H_9Cl_3NB$	4-Ethylpyridine-boron trichloride	-	Sol	Freq, Assign	Katritzky	JCS	- (1959) 2049

$C_7H_9Cl_5F_2Si$	2,2-Dichloro-3,3-difluorocyclobutylpropyltrichlorosilane	10.85-11.1 μ	-	Freq	Park	JOC	25	(1960)	1628
$C_7H_9F_3NO_3P$	Anilinium trifluoromethyl acid phosphonate	-	-	Band freq	Emeleus	JCS	-	(1955)	563
$C_7H_9F_5O$	Pentafluoroethyl n-butyl ketone	650-5000	Sol	Stretch freq	Griffin	SA	16	(1960)	1464
$C_7H_9F_7O$	1,1,1,2,2,3,3-Heptafluoroheptanol-4	-	Sol	Band freq, H bond	Haszeldine	JCS	-	(1953)	1757
		-	L	Group freq, I, Acidity	Henne	JACS	75	(1953)	991
C_7H_9N	Benzylamine	2-12 μ	L	Spec	Bell	JACS	48	(1926)	818
		6-2.4 μ	L	Bond study	Ellis	JACS	50	(1928)	685
		6400-6800	Sol	Band study	Liddel	JACS	55	(1933)	3574
		-	-	FC	Linnett	TFS	41	(1945)	223
C_7H_9N	3-Cyanocyclohexene	-	L	Ident	Janz	JACS	75	(1953)	5389
C_7H_9N	2,3-Dimethylpyridine	750-2000	-	Spec	Barnes	IEC	15	(1943)	659
		-	-	Ident	VanMeter	AC	24	(1952)	1758
		-	-	Impurity determination	Cox	JCS	-	(1954)	3183
		-	L	Absorbance, Anal	Cook	AC	28	(1956)	993
		2-15 μ	Sol	Characteristic freq	Podall	AC	29	(1957)	1423
		700-1300	-	Characteristic freq	Bohon	AC	30	(1958)	245
C_7H_9N	2,4-Dimethylpyridine	800-1950	-	Spec	Barnes	IEC	15	(1943)	659
		-	-	Ident	Vanmeter	AC	24	(1952)	1758
		-	-	Impurity determination	Cox	JCS	-	(1954)	3183
		-	L	Absorbance, Anal	Cook	AC	28	(1956)	993
		2-15 μ	L	Characteristic freq	Podall	AC	29	(1957)	1423
		675-1700	-	Characteristic freq	Bohon	AC	30	(1958)	245
C_7H_9N	2,5-Dimethylpyridine	-	L	Absorbance, Anal	Cook	AC	28	(1956)	993
		2-15 μ	Sol	Characteristic freq	Podall	AC	29	(1957)	1423
		675-1700	-	Characteristic freq	Bohon	AC	30	(1958)	245

C_7H_9N	2,6-Dimethylpyridine	750-1700	-	Spec	Barnes	IEC	15	(1943)	659
		650-2040	L	Spec	Cannon	SA	4	(1951)	373
		2800-4200	L	Spec, Band anal	Coulson	JCS	-	(1951)	2125
		-	L,Sol	Anal, Ext coeff	Densham	JCS	-	(1952)	2433
		-	-	Ident	VanMeter	AC	24	(1952)	1758
		716-4330	G,L	Table, I	Biddiscouebe	JCS	-	(1954)	1957
		-	-	Review	Brown	JACS	76	(1954)	5556
		-	L	Absorbance, Anal	Cook	AC	28	(1956)	993
		2-15μ	L	Characteristic freq	Podall	AC	29	(1957)	1423
		400-1700	-	Characteristic freq	Bohon	AC	30	(1958)	245
C_7H_9N	3,4-Dimethylpyridine	-	-	Ident	VanMeter	AC	24	(1952)	1758
		-	-	Ident	Cox	JCS	-	(1954)	3183
		-	L	Absorbance, Anal	Cook	AC	28	(1956)	993
C_7H_9N	3,5-Dimethylpyridine	-	-	Impurity determination	Brown	JACS	76	(1954)	5556
		-	-	Ident	Cox	JCS	-	(1954)	3183
		400-1700	Sol	Characteristic freq	Bohon	AC	30	(1958)	245
C_7H_9N	2-Ethylpyridine	-	L,Sol	Band freq, Ident, Anal	Deusham	JCS	-	(1952)	5044
		-	-	Ident	Cox	JCS	-	(1954)	3183
		-	L	Absorbance, Anal	Cook	AC	28	(1956)	993
		2-15μ	L	Table	Podall	AC	29	(1957)	1423
		400-1700	-	Characteristic freq	Bohon	AC	30	(1958)	245
C_7H_9N	3-Ethylpyridine	-	-	Ident	Cox	JCS	-	(1954)	3183
		2-15μ	L	Table	Podall	AC	29	(1957)	1423
		400-1700	-	Characteristic freq	Bohon	AC	30	(1958)	245
C_7H_9N	4-Ethylpyridine	-	-	Ident	Cox	JCS	-	(1954)	3183
		-	L	Absorbance, Anal	Cook	AC	28	(1956)	993
		-	L	Table	Podall	AC	29	(1957)	1423
		400-1700	-	Characteristic freq	Bohon	AC	30	(1958)	245
C_7H_9N	N-Methylaniline	1-12μ	L	Spec	Bell	JACS	47	(1925)	2192
		0.8-2.8μ	L	Spec, Band study	Ellis	JACS	49	(1927)	347
		-	-	Band freq	Bonino	TFS	25	(1929)	876
		6500-6800	Sol	Band study	Liddel	JACS	55	(1933)	3574
		1050-1850	-	Spec	Barnes	IEC	15	(1943)	659
		700-1400	L	Spec	Whiffen	TFS	41	(1945)	200

		-	L	Band freq	Flett	JCS	-	(1948)	1441
		-	Sol	Vib, I	Richards	TFS	45	(1949)	874
		3500-650	L	Spec	Lothrop	JACS	73	(1951)	3581
		-	-	Purity check, Anal	Dannley	JOC	20	(1955)	92
		-	-	Band freq, Ext coeff, I	Russell	JCS	-	(1955)	483
		-	L	Freq	Hadzi	JCS	-	(1957)	843
		-	-	Substituent effect	Whetsel	AC	29	(1957)	1006
		2800-3000	L,S	Group determination	Braunholtz	JCS	-	(1958)	2780
		2900-3100	Sol	Band freq	Hill	JCS	-	(1958)	760
		4000-600	Sol	Group freq, substituent effect	Katritzky	JCS	-	(1958)	4155
		3100-3550	Sol	H bond	Lund	ACS	12	(1958)	298
		-	-	Absorbance, Freq, Struct	Katritzky	JCS	-	(1959)	3674
		3500-3200	Sol	Freq	Moritz	SA	15	(1959)	242
C_7H_9N	m-Toluidine	6500-6800	Sol	Spec	Liddel	JACS	55	(1933)	3574
		1050-1750	-	Spec	Barnes	IEC	15	(1943)	659
		5-8 μ	-	C_6H_6 derivatives	Depaigne	JPR	7	(1946)	33
		-	-	Absorbance	Bomstein	AC	25	(1953)	512
		-	-	Anal, I	Kaye	AC	26	(1954)	428
		7-3.0 μ	L,Sol	Spec	Kaye	SA	6	(1954)	257
		-	-	Freq	Califano	GCI	86	(1956)	1014
		2000-4000	S,L, Sol	Spec	Califano	GCI	87	(1957)	805
		3000-3700	Sol	Freq	Soda	BCSJ	30	(1957)	499
		21-14 μ	Sol	Anal	Whetsel	AC	30	(1958)	1594
		26-8 μ	Sol	Band freq, Struct, Anal	Whetsel	AC	30	(1958)	1598
		700-1700	Sol	Position shift, I	Katritzky	JCS	-	(1959)	2058
		-	-	Absorbance, Freq, Struct	Katritzky	JCS	-	(1959)	3674
		-	Sol	Band freq	Bryson	JACS	82	(1960)	4858
		450-3800	Sol,L, S,G	Spec	Evans	SA	16	(1960)	352
		1.4-1.6 μ	Sol	Solvent effect	Whetsel	AC	32	(1960)	1281
C_7H_9N	o-Toluidine	6500-6800	Sol	Band freq	Liddel	JACS	55	(1933)	3574
		2.6-3.1 μ	L	H bond	Gordy	JACS	62	(1940)	497

		1100-1800	-	Spec	Barnes	IEC	15	(1943)	659
		5-8 μ	-	C_6H_6 derivatives	Depaigne	JPR	7	(1946)	33
		2-15 μ	S	Spec	White	AC	22	(1950)	768
		-	-	Absorbance	Bomstein	AC	25	(1953)	512
		3000-3700	Sol	Freq	Soda	BCSJ	30	(1957)	499
		2600-800	Sol	Struct	Whetsel	AC	30	(1958)	1598
		800-1600	-	I, Ext coeff	Katritzky	JCS	-	(1959)	3670
		-	-	Absorbance, Freq, Struct	Katritzky	JCS	-	(1959)	3674
C_7H_9N	p-Toluidine	6-2.0 μ	L	Band study	Ellis	JACS	50	(1928)	685
		6500-6800	Sol	Band study	Liddel	JACS	55	(1933)	3574
		2.6-3.1 μ	Sol	H bond	Gordy	JACS	62	(1940)	497
		1050-1950	-	Spec	Barnes	IEC	15	(1943)	659
		700-1400	L	Spec	Whiffen	TFS	41	(1945)	200
		5-8 μ	-	C_6H_6 derivatives	Depaigne	JPR	7	(1946)	33
		3405-3487	Sol	Band freq, Chem properties	Flett	TFS	44	(1948)	40
		-	-	FC	Richards	TFS	44	(1948)	767
		-	-	Band freq, Absorbance	Bomstein	AC	25	(1953)	512
		-	Sol	Freq	Chatt	JCS	-	(1955)	4461
		-	-	Group freq	Califano	GCI	86	(1956)	1014
		2000-4000	L,S, Sol	Spec	Califano	GCI	87	(1957)	805
		-	Sol	Freq , Solvent effect	Krueger	PRS	243	(1957)	143
		3000-3700	Sol	FC	Soda	BCSJ	30	(1957)	499
		2600-1400	-	Band study, Struct	Whetsel	AC	30	(1958)	1598
		2700-3000	L,G	Assign	Fuson	BSCF	-	(1959)	93
		700-1700	Sol	Freq assign	Katritzky	JCS	-	(1959)	2051
		-	-	Absorbance, Freq, Struct	Katritzky	JCS	-	(1959)	3674
		-	-	Spec	Chizhovak	ZOK	30	(1960)	3695
C_7H_9N	2-Propenylpyrrole	-	-	Group freq	Herz	JACS	76	(1954)	576
C_7H_9NHBr	N-Methylaniline hydrobromide	1000-3500	Sol,S	Band study	Chenon	CJC	36	(1958)	1181
C_7H_9N	4-Ethylpyridine	-	-	Group freq	Witkop	JACS	76	(1954)	497

C_7H_9NHCl	4-Ethylpyridine hydrochloride	-	-	Group freq	Witkop	JACS	76	(1954)	5597
C_7H_9NHCl	N-Methylaniline hydrochloride	1000-3500	Sol,S	Freq	Chenon	CJC	36	(1958)	1181
C_7H_9NHI	N-Methylaniline hydriodide	1000-3500	S,Sol	Band study	Chenon	CJC	36	(1958)	1181
C_7H_9NO	2-Cyanocyclohexanone	-	Sol	Shift on chelation	Bellamy	JCS	-	(1954)	4487
C_7H_9NO	2,4-Dimethyl-3-pyrrole-carboxaldehyde	-	S,Sol	Freq	Mirone	ANCR	48	(1958)	72
C_7H_9NO	2,5-Dimethyl-3-pyrrole-carboxaldehyde	-	S,Sol	Freq	Mirone	ANCR	48	(1958)	72
C_7H_9NO	3,5-Dimethyl-3-pyrrole-carboxaldehyde	-	S,Sol	Freq	Mirone	ANCR	48	(1958)	72
C_7H_9NO	α-Ethoxypyridine	900-3000	Sol	Freq, Assign	Katritzky	JCS	-	(1959)	2062
C_7H_9NO	β-Ethoxypyridine	600-3000	Sol	Vib assign, Symmetry	Katritzky	JCS	-	(1958)	3165
		900-3000	Sol	Freq, Assign	Katritzky	JCS	-	(1959)	2062
C_7H_9NO	γ-Ethoxypyridine	900-3000	Sol	Freq, Assign	Katritzky	JCS	-	(1959)	2062
C_7H_9NO	p-Ethylpyridine-1-oxide	600-3000	Sol	Substituent effect, I	Katritzky	JCS	-	(1958)	2192
C_7H_9NO	m-Methoxyaniline	-	Sol	Freq	Krueger	PRS	243	(1957)	143
		700-1700	Sol	Substituent effect, I	Katritzky	JCS	-	(1959)	2058
		900-3000	Sol	Freq, Assign	Kartitzky	JCS	-	(1959)	2062
		-	-	Absorbance, Freq, Struct	Katritzky	JCS	-	(1959)	3674
		-	Sol	Freq	Bryson	JACS	82	(1960)	4858

C_7H_9NO	o-Methoxyaniline	-	Sol	Band freq	Witkop	JACS	74	(1952)	3861
		2600-800	Sol	Struct	Whetsel	AC	30	(1958)	1598
		800-1600	-	I, Ext coeff	Katritzky	JCS	-	(1959)	3670
		-	-	Absorbance, Freq, Struct	Katritzky	JCS	-	(1959)	3674
C_7H_9NO	p-Methoxyaniline	3400-3473	Sol	Freq, Chem properties	Flett	TFS	44	(1948)	767
		-	-	FC	Richards	TFS	44	(1948)	40
		-	Sol	FC, Solvent effect	Krueger	PRS	243	(1957)	143
		2600-800	Sol	Band study, Struct	Whetsel	AC	30	(1958)	1598
		700-1700	Sol	Freq, Assign, I	Katritzky	JCS	-	(1959)	2051
		900-3000	Sol	Group freq, Assign	Katritzky	JCS	-	(1959)	2062
		-	-	Absorbance, Freq, Struct	Katritzky	JCS	-	(1959)	3674
C_7H_9NO	3-Methyl-4,2-isopropenyl -isoxazole	2-16 μ	L	Spec, Group freq	Shechter	JACS	76	(1954)	2716
C_7H_9NO	1,(2-Pyridyl)ethanol	-	-	Group freq	Bullitt	JACS	76	(1954)	1370
$C_7H_9NO_2$	2,6-Dihydroxy-3,4-dimethylpyridine	996-1626	S	Band freq, Table	Ames	JCS	-	(1953)	3008
$C_7H_9NO_2$	2,6-Dihydroxymethyl-pyridine	-	-	Ident	Boekelheide	JACS	76	(1954)	1286
$C_7H_9NO_2$	α-Ethoxypyridine-N-oxide	900-3000	Sol	Group freq, Assign	Katritzky	JCS	-	(1959)	2062
$C_7H_9NO_2$	β-Ethoxypyridine-N-oxide	900-3000	Sol	Group freq, Assign	Katritzky	JCS	-	(1959)	2062
$C_7H_9NO_2$	γ-Ethoxypyridine-N-oxide	600-3000	Sol	Substituent effect, I	Katritzky	JCS	-	(1958)	2192
		800-3000	Sol	Spec, Freq, I	Katritzky	JCS	-	(1959)	3680
		900-3000	Sol	Group freq, Assign	Katritzky	JCS	-	(1959)	2062
$C_7H_9NO_2$	Ethyl cis-β-cyanocrotonate	-	Sol	Band freq, I	Felton	JCS	-	(1955)	2170

$C_7H_9NO_2$	Ethyl trans-β-cyano-crotonate	-	Sol	Group freq, I	Felton	JCS	-	(1955)	2170
$C_7H_9NO_2$	γ-Methoxy-β-methyl-pyridine-N-oxide	900-3000	Sol	Group freq, Assign	Katritzky	JCS	-	(1959)	2062
$C_7H_9NO_2$	6-Methoxy-4-methyl-pyrid-2-one	775-2688	S	Band freq, Table	Ames	JCS	-	(1953)	3008
$C_7H_9NO_2$	Methylethylmaleimide	2-13 μ	S	Spec, Group Freq, Struct	Richmond	JACS	74	(1952)	4368
$C_7H_9NO_2$	α,β,N-Trimethyl-maleinimide	-	-	Group freq	Ames	JCS	-	(1955)	631
$C_7H_9NO_2HCl.H_2O$	2,6-Dihydroxy-3,4-dimethylpyridine hydrochloride hydrate	1003-3348	S	Table, Band freq	Ames	JCS	-	(1953)	3008
$C_7H_9NO_2S$	p-Aminophenyl methyl sulfone	-	S,Sol	Substituent effect	Momose	CPBT	6	(1958)	412
$C_7H_9NO_2S$	Methane sulfonanilide	-	S,Sol	Group freq	Baxter	JCS	-	(1955)	669
		4000-600	Sol	Substitution effect	Katritzky	JCS	-	(1958)	4155
		900-3350	Sol	Freq, Assign, Ext coeff	Katritzky	JCS	-	(1960)	4497
$C_7H_9NO_2S$	o-Methylsulphonyl-aniline	2600-800	Sol	Band study, Struct	Whetsel	AC	30	(1958)	159B
$C_7H_9NO_2S$	p-Methylsulphonyl-aniline	2600-800	Sol	Band study, Struct	Whetsel	AC	30	(1958)	159B
$C_7H_9NO_2S$	o-Toluenesulfonamide	1000-1500	Sol	Spec	Schreiber	AC	21	(1949)	1168
$C_7H_9NO_2S$	p-Toluenesulfonamide	1000-1500	Sol	Spec	Schreiber	AC	21	(1949)	1168
		-	-	Ident	Doering	JACS	75	(1953)	5955
		2-15 μ	S	Spec	Kendall	APS	7	(1953)	179
		-	S,Sol	Group freq	Baxter	JCS	-	(1955)	669

$C_7H_9NO_3$	4-Carbamylhydroxy-2,3-dimethylbut-2-enoic lactone	762-3436	S	Table, Band freq	Ames	JCS	-	(1954)	375
$C_7H_9NO_3HCl.H_2O$	2,5,6-Trihydroxy-3,4-dimethylpyridine hydrochloride hydrate	894-3356	S	Table, Band freq	Ames	JCS	-	(1953)	3008
$C_7H_9NO_5$	2-Acetoxycarbonyl-5-acetoxypyrrole	500-4000	S	Spec, Bond stretch freq	Eisner	JCS	-	(1958)	971
$C_7H_9NO_5$	Methylethylmaleimide ozonide	2-13 μ	S	Spec, Group freq, Struct	Richmond	JACS	74	(1952)	4368
C_7H_9NS	o-Methylmarcaptoaniline	2600-800	Sol	Band study, Struct	Whetsel	AC	30	(1958)	1598
C_7H_9NS	p-Methylmarcaptoaniline	2600-800	Sol	Band study, Struct	Whetsel	AC	30	(1958)	1598
C_7H_9NS	2-(2-Thenyl) pyrroline	6.20 μ	Sol	Substituent effect	Meyers	JOC	24	(1959)	1233
$C_7H_9N_2O_2$	o-Nitro-N-methylaniline	3000-3500	Sol	H bond	Farmer	SA	16	(1960)	559
$C_7H_9N_3O$	2,5-Dimethyl-4-cyano-pyrrole-3-oxime	500-4000	S	Spec, Stretch freq, Struct	Eisner	JCS	-	(1958)	971
$C_7H_9N_3O$	1-Phenylsemicarbazide	-	S	Ident	Mautner	JACS	77	(1955)	4076
$C_7H_9N_3OS$	Pyrrolidino-(1':2'-1:5)-2-thiohydantoin	2500-800	S	Band assign	Elmore	JCS	-	(1958)	3489
$C_7H_9N_3O_4$	2-Methyl-4,6-dimethoxy-5-nitropyrimidine	2-25 μ	S	Spec, Group freq	Short	JCS	-	(1952)	168
$C_7H_9N_3S$	4-Phenylthiosemi-carbazide	700-1700	S	Spec, Struct, Assign, Taut	Lieber	CJC	36	(1958)	801
$C_7H_9N_5$	6-Dimethylaminopurine	-	-	Ident	Waller	JACS	75	(1953)	2025
$C_7H_9N_5O_{10}$	1-Carboxymethyl-3,3,5,5-	-	-	Band freq	Feuer	JACS	76	(1954)	5134

$C_7H_9N_5O_{10}$	1-Carboxymethyl-3,3,5,5-tetranitropiperidine	-	-	Band freq	Feuer	JACS	76 (1954) 5124
$C_7H_9N_7O_2$	Anilinium-5-nitro-aminotetrazole	2-15μ	S	Spec, Group freq	Lieber	AC	23 (1951) 1594
$C_7H_9O_2P$	p-Toluenephosphinic acid	2-12μ	S	Spec, Struct anal	Daasch	AC	23 (1951) 853
		600-4000	S,Sol	Group study	Braunholtz	JCS	- (1959) 868
$C_7H_9O_2As$	Methylphenylarsinic acid	1500-4000	S,Sol	Spec	Braunholtz	JCS	- (1959) 868
$C_7H_9O_3$	2-Acetoxymethylfuran	800-1700	Sol	Freq, Assign	Katritzky	JCS	- (1959) 657
$C_7H_9O_3As$	o-Tolylarsonic acid	600-4000	S,Sol	Group presence confirmed	Braunholtz	JCS	- (1959) 868
$C_7H_9O_3As$	p-Tolylarsonic acid	600-4000	S,Sol	Group presence confirmed	Braunholtz	JCS	- (1959) 868
C_7H_{10}	Norbornylene	2.5-15μ	Sol	Spec	Roberts	JACS	72 (1950) 3116
		-	Sol	Ident	Roberts	JACS	76 (1954) 5692
		-	-	Group freq	MeBee	JACS	77 (1955) 915
C_7H_{10}	Nortricyclene	2.5-15μ	Sol	Spec	Roberts	JACS	72 (1950) 3116
		400-4000	G,L,S, Sol	Spec, Struct	Lippincott	JACS	73 (1951) 2001
C_7H_{10}	4-Propyl-1-butene-3-yne	-	-	Spec, Group characteristic	Petrov	ZOK	27 (1957) 1167
$C_7H_{10}D_2N_2O_2$	1,2-Cycloheptanedione dioxime-d_2	2-16μ	S	Spec, H bond	Voter	AC	23 (1951) 1730
$C_7H_{10}D_2O_2$	Cyclohexanecarboxylic acid- α,O-d_2	8-13μ	-	Spec	Eliel	SA	10 (1958) 423

$C_7H_{10}Br_2$	trans-2,3-Dibromobicyclo [2.2.1] heptane	5.7-15.7 μ	-	Table, Ident, I	Kwart	JACS	76	(1954) 4072
$C_7H_{10}Br_2$	2-exo-7-cis-Dibromo-bicyclo[2.2.1]heptane	6.8-15.5 μ	-	Table, I	Kwart	JACS	76	(1954) 4072
$C_7H_{10}Br_2$	7,7-Dibromobicyclo [4.1.0]heptane	670-4000	L	Spec	Doering	JACS	76	(1954) 6162
$C_7H_{10}Br_2O_4$	Diethyl dibromomalonate	2-15 μ	L	Spec, Freq	Abramovitch	CJC	36	(1958) 151
		1700-1800	L,Sol	Rotational Iso	Abramovitch	CJC	37	(1959) 1146
$C_7H_{10}Cl_2$	7,7-Dichlorobicyclo [4.1.0]heptane	670-4000	L	Spec	Doering	JACS	76	(1954) 6162
$C_7H_{10}Cl_2$	endo-cis-2,3-Dichloronor-bornane	2-16 μ	Sol	Spec	Roberts	JACS	76	(1954) 5692
$C_7H_{10}Cl_2$	trans-2,3-Dichloronor-bornane	2-16 μ	Sol	Spec	Roberts	JACS	76	(1954) 5692
$C_7H_{10}Cl_2$	Syn-exo-2,7-Dichloronor-bornane	2-16 μ	Sol	Spec	Roberts	JACS	76	(1954) 5692
$C_7H_{10}Cl_2N_4$	2-t-Butylamino-4,6-dichloro-1,3,5-triazine	2-16 μ	S	Spec, Struct	Padgett	JACS	80	(1958) 803
$C_7H_{10}Cl_2O_2$	2-Chlorocyclohexyl chloroformate	-	L	Freq	Hales	JCS	-	(1957) 618
$C_7H_{10}Cl_2O_2$	Ethyl 2,5-dichloro-4-pentenoate	-	-	Band freq, Ident	Phillips	JACS	76	(1954) 5385
$C_7H_{10}Cl_2O_4$	Bis-β-chloroethyl malonate	-	-	Ident	Hart	JACS	77	(1955) 3138
$C_7H_{10}Cl_4O_3$	Bis-1,3-Dichloroisopropyl carbonate	-	Sol	Freq , Struct	Hales	JCS	-	(1957) 618

$C_7H_{10}F_4NB$	p-Tolylammoniumfluoro-borate	-	S	H bond, Freq	Nuttall	JCS	-	(1960)	4965
$C_7H_{10}N_2$	2-N,N-Dimethylamino-pyridine	-	-	Absorption, Freq, Struct	Katritzky	JCS	-	(1959)	3674
$C_7H_{10}N_2$	3-N,N-Dimethylamino-pyridine	-	-	Absorption, Freq, Struct	Katritzky	JCS	-	(1959)	3674
$C_7H_{10}N_2$	4-N,N-Dimethylamino-pyridine	-	-	Absorption, Freq, Struct	Katritzky	JCS	-	(1959)	3674
$C_7H_{10}N_2$	1-Ethyl-1,2-dihydro-2-iminopyridine	3 μ	Sol	Freq , I	Mason	JCS	-	(1959)	1281
$C_7H_{10}N_2$	1-Ethyl-1,4-dihydro-2-iminopyridine	3 μ	Sol	Freq , I	Mason	JCS	-	(1959)	1281
$C_7H_{10}N_2$	3-Isopropenyl-5-methyl-pyrazole	670-3800	Sol	Spec, Struct	Charette	SA	15	(1959)	70
$C_7H_{10}N_2$	β-Methyladiponitrile	-	-	Band freq	Kitson	AC	24	(1952)	334
$C_7H_{10}N_2$	1-Methyl-1-phenyl-hydrazine	300-6900	Sol	Spec, Group anal	Wulf	JACS	57	(1935)	1464
$C_7H_{10}N_2$	Pimelonitrile	-	-	Band freq	Kitson	AC	24	(1952)	334
		2200-2300	Sol	Freq , Struct	Jesson	SA	13	(1958)	217
$C_7H_{10}N_2O$	2,4-Diazobicyclo[3,3,1] nonan-3-one	1600-1800	Sol	Freq	Hall	JACS	80	(1958)	6428
$C_7H_{10}N_2O$	2-N,N-Dimethylamino-pyridine-N-oxide	-	-	Absorption, Freq, Struct	Katritzky	JCS	-	(1959)	3674
		800-3000	Sol	Substituent effect	Katritzky	JCS	-	(1958)	2195

$C_7H_{10}N_2O$	4-N,N-Dimethylamino-pyridine-N-oxide	600-3000	Sol	Substituent effect, I	Katritzky	JCS	-	(1958)	2195
		-	-	Absorption, Freq, Struct	Katritzky	JCS	-	(1959)	3674
$C_7H_{10}N_2OS$	1,4-Dimethyl-2-methyl-thio-6-ketopyrimidine	2-25 μ	S	Spec, Group freq	Short	JCS	-	(1952)	168
$C_7H_{10}N_2OS$	6-Propyl-2-thiouracil	2-12 μ	Sol	Spec, Group freq, Assign	Lacher	JPC	59	(1955)	615
$C_7H_{10}N_2O_2$	α-N-Ethoxyamino-pyridine-N-oxide	800-3000	Sol	Substituent effect	Katritzky	JCS	-	(1958)	2195
$C_7H_{10}N_2O_2S$	N-(2-Pyridine)-N-methyl-methanesulfonamide	874-1470	Sol	Freq, Assign, Ext coeff	Katritzky	JCS	-	(1960)	4497
$C_7H_{10}N_2O_2S$	N-(3-Pyridine)-N-methyl-methanesulfonamide	874-1470	Sol	Freq, Assign, Ext coeff	Katritzky	JCS	-	(1960)	4497
$C_7H_{10}N_2O_2S$	N-(4-Pyridine)-N-methyl-methanesulfonamide	874-1470	Sol	Freq, Assign, Ext coeff	Katritzky	JCS	-	(1960)	4497
$C_7H_{10}N_2O_3$	6-Ethoxy-1-methyluracil	2-12 μ	Sol	Spec, Group freq, Assign	Lacher	JPC	59	(1955)	615
$C_7H_{10}N_2O_3$	2-Nitro-2-nitrosonorcamphane	-	-	Ident	Wildman	JOC	17	(1952)	1641
$C_7H_{10}N_2O_7$	1-Nitro-1-(α-hydroxy-γ-nitropropyl)-2-carboxy-cyclopropane	-	-	Spec	Boer	RTC	79	(1960)	231
$C_7H_{10}N_4OS$	6-Amino-4-acetamido-2-methylthiopyrimidine	2-15 μ	S	Spect, Group freq, Assign	Brownlie	JCS	-	(1950)	3062
$C_7H_{10}O$	Bicyclo[2,2,1]-heptan-2-one	1600-1800	Sol	Freq	Hall	JACS	80	(1958)	6428

$C_7H_{10}O$	Bicyclo[2,2,1]-heptan-7-one	1600-1800	Sol	Freq	Hall	JACS	80 (1958)	6428
$C_7H_{10}O$	Cycloheptadiene-3,5-ol	-	L	Group freq	Meinwald	JACS	77 (1955)	4401
$C_7H_{10}O$	Cyclopropylethynyl-methylcarbinol	1.1-2.7 μ	Sol	Group confirmation	Washburn	JACS	80 (1958)	504
$C_7H_{10}O$	endo-Dehydronorborneol	2.5-15 μ	Sol	Spec	Roberts	JACS	72 (1950)	3116
$C_7H_{10}O$	exo-Dehydronorborneol	2.5-15 μ	Sol	Spec	Roberts	JACS	72 (1950)	3116
$C_7H_{10}O$	Dicyclopropyl ketone	3-11 μ	L,S	Spec, Struct	Allen	JOC	22 (1957)	1291
$C_7H_{10}O$	3,3-Dimethylpentyn-1-one-4	-	-	Band & Group freq	Davis	JACS	76 (1954)	3477
$C_7H_{10}O$	trans-Hept-2-en-6-yn-1-ol	-	-	Group freq	Shaw	JCS	- (1954)	3217
$C_7H_{10}O$	3-Hydroxynortricyclene	2.5-15 μ	Sol	Spec	Roberts	JACS	72 (1950)	3116
$C_7H_{10}O$	2-Methoxy-1-hexene-3-yne	-	-	Spec, Freq	Petrov	ZOK	28 (1958)	71
$C_7H_{10}O$	2-Methylcyclohex-5-en-1-one	1600-1750	L	Spec, Stretch freq	Braude	JCS	- (1955)	3766
$C_7H_{10}O$	5-Methyl-2-cyclohexenone	-	Sol	Band freq, Ident	Goering	JACS	76 (1954)	5405
$C_7H_{10}O$	Norcamphor	-	-	Ident	Roberts	JACS	76 (1954)	5692
$C_7H_{10}OS$	3-Oxocyclohexenyl methyl sulfide	-	-	Ident	Bateman	JCS	- (1955)	1996
$C_7H_{10}OSi$	p-Anisylsilane	2-16 μ	Sol	Freq, Vib. modes	Kniseley	SA	15 (1959)	651
$C_7H_{10}O_2$	α-Allyl-γ-butyrolactone	-	-	Band freq	Wiesner	JACS	77 (1955)	675

$C_7H_{10}O_2$	Allyl methacrylate	-	Sol	Group freq, Absorbance	Davison	JCS	-	(1953)	2607
$C_7H_{10}O_2$	1,2-Cycloheptanedione	-	-	Band study	Goldman	JACS	76	(1954)	5789
$C_7H_{10}O_2$	Cyclohexene-1-carboxylic acid	5.82-6.12μ	-	Ident	Vaughan	JACS	77	(1955)	4629
$C_7H_{10}O_2$	Cyclohexene-3-carboxylic acid	5.82-6.12μ	-	Ident	Vaughan	JACS	77	(1955)	4629
$C_7H_{10}O_2$	2-Formylcyclohexanone	-	Sol	Group freq	Bellamy	JCS	-	(1954)	4487
$C_7H_{10}O_2$	1,2-Hexadiene-3-carboxylic acid	-	S	Band study	Wotiz	JACS	74	(1952)	1860
$C_7H_{10}O_2$	1,5-Hexadiene-3-carboxylic acid	-	-	Struct	Bateman	JCS	-	(1950)	936
$C_7H_{10}O_2$	Methacroylacetone	1200-1800	S	IR shift, Stability const	Charette	SA	16	(1960)	689
$C_7H_{10}O_2$	2-Methylcyclohexane-1,3-dione	- 1550-1750	S,L Sol	Band freq Spec, Assign	Rogers Anachenko	JCS IANS	- -	(1955) (1960)	341 1644
$C_7H_{10}O_2$	4-Methylcyclohexane-1,3-dione	1800-1500	Sol	Solvent effect	Delvaux	SA	12	(1958)	289
$C_7H_{10}O_2$	Methyl cis-2,cis-4-hexadienoate	-	Sol	Group freq, I	Allan	JCS	-	(1955)	1874
$C_7H_{10}O_2$	Methyl cis-2,trans-4-hexadienoate	-	Sol	Group freq, I	Allan	JCS	-	(1955)	1874
$C_7H_{10}O_2$	Methyl trans-2,cis-4-hexadienoate	-	Sol	Group freq, I	Allan	JCS	-	(1955)	1874
$C_7H_{10}O_2$	Methyl trans-2,trans-4-hexadienoate	-	Sol	Group freq, I	Allan	JCS	-	(1955)	1874
$C_7H_{10}O_2$	Methyl sorbate	1050-1800	-	Spec	Barnes	IEC	15	(1943)	659

$C_7H_{10}O_2$	Methyl sorbate	1050-1800	-	Spec	Barnes	IEC	15 (1943) 659
$C_7H_{10}O_2$	2-Oxabicyclo[2,2,2]octan-3-one	1600-1800	Sol	Freq	Hall	JACS	80 (1958) 6428
$C_7H_{10}O_2$	6-Oxabicyclo[3,2,1]octan-7-one	1600-1800	Sol	Freq	Hall	JACS	80 (1958) 6428
$C_7H_{10}O_3$	2-Acetoxy-3,4-dihydro--2H-pyran	-	-	Band study	Smith	JACS	73 (1951) 5270
$C_7H_{10}O_3$	Acetylacetone acetate	-	-	Absorption freq, Struct anal	Rasmussen	JACS	71 (1949) 1068
		-	S	Band freq	Bellamy	JCS	- (1952) 4653
		-	Sol	Shift on chelateon	Bellamy	JCS	- (1954) 4487
$C_7H_{10}O_3$	2-Carbomethoxy-3,4-dihydro-2H-pyran	-	-	Band study	Smith	JACS	73 (1951) 5270
$C_7H_{10}O_3$	2,4-Dioxabicyclo[3,3,1] nonan-3-one	1600-1800	Sol	Freq	Hall	JACS	80 (1958) 6428
$C_7H_{10}O_3$	2,4-Dioxabicyclo[3,2,2] nonan-3-one	1600-1800	Sol	Freq	Hall	JACS	80 (1958) 6428
$C_7H_{10}O_3$	Ethyl β-formylcrotonate	-	-	Group freq	Wiley	JACS	77 (1955) 3422
$C_7H_{10}O_3$	Glycidyl crotonate	2-15 μ	S,Sol	Spec, Group freq	Patterson	AC	26 (1954) 823
$C_7H_{10}O_3$	Glycidyl methacrylate	2-15 μ	L,Sol	Spec, Group freq	Patterson	AC	26 (1954) 823
$C_7H_{10}O_3$	2,2,4-Trimethyl-6-keto-1,3-dioxene	2-16 μ	Sol	Spec	Carroll	JACS	75 (1953) 5400
$C_7H_{10}O_4$	γ-Acetoxy-γ-valerolactone	2-15 μ	-	Spec, Struct anal	Rasmussen	JACS	71 (1949) 1073

$C_7H_{10}O_4$	4-Carboxy-4-hydroxy-2,3-dimethylbutanoic lactone	686-3279	S	Group freq, Table	Ames	JCS	-	(1954)	375
$C_7H_{10}O_4$	cis-Caronic acid	-	-	Band freq	Corey	JACS	76	(1954)	5257
$C_7H_{10}O_4$	cis-Cyclopentane-1,3-dicarboxylic acid	-	S	Ident	Roberts	JACS	77	(1955)	3034
$C_7H_{10}O_4$	1,3-Diacetoxypropene	-	-	Band study	Smith	JACS	73	(1951)	5282
$C_7H_{10}O_4$	3,3-Diacetoxypropene	-	-	Band study	Smith	JACS	73	(1951)	5282
$C_7H_{10}O_4$	Dimethyl itaconate	1050-1800	-	Spec, Freq	Barnes	IEC	15	(1943)	659
$C_7H_{10}O_4$	Isopropyl fumarate	2-15μ	L	Assign, Generalisation	Walton	JACS	79	(1957)	3985
$C_7H_{10}O_4$	2-Methylene-1,6-hexanedioic acid	-	S	Band freq	Jones	JCS	-	(1954)	1865
$C_7H_{10}O_4$	Propyl fumarate	2-15μ	L	Assign, Generalisation	Walton	JACS	79	(1957)	3985
		600-4000	S,Sol	Spec, Assign	Lefevre	AJC	11	(1958)	92
$C_7H_{10}O_4$	n-Propyl maleate	600-4000	S,Sol	Spec, Assign	Lefevre	AJC	11	(1958)	92
$C_7H_{10}O_5$	β-Methoxyethyl fumarate	2-15μ	L	Assign, Generalisation	Walton	JACS	79	(1957)	3985
$C_7H_{10}O_5$	Shikimic acid	700-5000	S	Spec	Weiss	JACS	75	(1953)	5572
$C_7H_{10}O_5S$	Acetylthioilamalic acid	-	-	Band freq	Knuth	JOC	19	(1954)	845
$C_7H_{10}O_6$	5-Dehydroquinic acid	700-5000	S	Spec	Weiss	JACS	75	(1953)	5572
$C_7H_{10}O_6$	Methyl α-D-glucofururonoside	-	S	Band freq	Phillips	JACS	76	(1954)	3598

$C_7H_{10}O_6$	Methyl β-D-glucofururonoside	-	S	Band freq	Phillips	JACS	76 (1954)	3598
$C_7H_{10}S$	2-n-Propylthiophene	7-14μ	-	Spec, Anal	Pines	JACS	72 (1950)	1568
$C_7H_{10}Si$	Benzylsilane	2-16μ	Sol	Freq, Vibmodes	Kniseley	SA	15 (1959)	651
$C_7H_{10}Si$	Methylphenylsilane	-	L,Sol	Group freq, I	Harvey	JACS	76 (1954)	4555
		2-16μ	Sol	Freq, Vib mode	Kniseley	SA	15 (1959)	651
		2050-2250	Sol	Freq, Struct	Smith	SA	15 (1959)	412
		2-15μ	Sol	Spec, Struct, Freq	Smith	SA	16 (1960)	87
$C_7H_{10}Si$	p-Tolylsilane	2-16μ	Sol	Freq, Vib mode	Kniseley	SA	15 (1959)	651
$C_7H_{11}DO_2$	Cyclohexanecarboxylic acid-d_1	700-1500	S	Spec, Assign	Hadzi	PRS	216 (1953)	247
		-	-	ν_{OH}, ν_{OD}	Bratoz	SA	8 (1956)	249
		8-13μ	-	Spec	Eliel	SA	10 (1958)	423
$C_7H_{11}D_3O$	Methoxycyclohexane-d_3	2100-3000	Sol	Assign confirmed	Dalton	JCS	- (1960)	2927
$C_7H_{11}Br$	7-Bromobicyclo[2.2.1]-heptane	3.5-14μ	-	Table, I	Kwart	JACS	76 (1954)	4072
$C_7H_{11}Br$	1-Bromo-1-heptyne	2-15μ	L	Spec	Wotiz	JACS	71 (1949)	3441
$C_7H_{11}Br$	1-Bromo-2-heptyne	2-18μ	L	Spec	Wotiz	JACS	71 (1949)	3441
		-	L	New bands studied	Wotiz	JACS	72 (1950)	5055
		-	-	Ident	Sammul	JACS	75 (1953)	4856
$C_7H_{11}Br$	1-Bromo-3-heptyne	2-15μ	L	Spec	Wotiz	JACS	71 (1949)	3441
$C_7H_{11}Br$	1-Bromo-5-heptyne	2-15μ	L	Spec	Wotiz	JACS	71 (1949)	3441
$C_7H_{11}Br$	1-Bromo-6-heptyne	2-15μ	L	Spec	Wotiz	JACS	74 (1949)	3441
$C_7H_{11}Br$	3-Bromo-1-heptyne	2-16μ	L	Spec, Table	Wotiz	JACS	72 (1950)	5055

$C_7H_{11}Br$	endo-Norbornyl bromide	2.5-15 μ	L	Spec, Solvolysis rate	Roberts	JACS	72	(1950)	3329
$C_7H_{11}Br$	exo-Norbornyl bromide	2.5-15 μ	L	Spec, Solvolysis rate	Roberts	JACS	72	(1950)	3329
		3.4-15.5 μ	-	Table, I	Kwart	JACS	76	(1954)	4072
$C_7H_{11}BrO$	α-Bromocycloheptanone	-	Sol	Band freq, Shift, Table	Corey	JACS	75	(1953)	2301
		-	Sol	IR shift	Leonard	JACS	80	(1958)	6039
$C_7H_{11}BrO_2$	cis-2-Bromocyclohexane-carboxylic acid	-	-	Group freq	Vaughan	JACS	77	(1955)	4629
$C_7H_{11}BrO_2$	trans-2-Bromocyclohexane-carboxylic acid	-	-	Group freq	Vaughan	JACS	77	(1955)	4629
$C_7H_{11}BrO_4$	Diethyl bromomalonate	2-15 μ	Sol	Freq , Splitting	Abramovitch	CJC	36	(1958)	151
		1700-1800	L,Sol	Iso, Vib coupling	Abramovitch	CJC	37	(1959)	1146
$C_7H_{11}Cl$	1-Chloro-1-heptyne	-	-	Assign	Cleveland	JCP	10	(1942)	172
$C_7H_{11}Cl$	1-Chloro-2-heptyne	2-15 μ	L	Spec	Wotiz	JACS	71	(1949)	3441
$C_7H_{11}Cl$	1-Chloro-4-heptyne	2-15 μ	L	Spec	Wotiz	JACS	71	(1949)	3441
$C_7H_{11}Cl$	1-Chloro-5-heptyne	2-15 μ	L	Spec	Wotiz	JACS	71	(1949)	3441
$C_7H_{11}Cl$	1-Chloromethylcyclo-hexene	-	-	Band freq	Arnold	JACS	75	(1953)	5396
$C_7H_{11}Cl$	2-Chloromethylcyclo-hexene	-	-	Band freq	Arnold	JACS	75	(1953)	5396
$C_7H_{11}Cl$	7-Chloronorbornane	2-16 μ	Sol	Spec	Roberts	JACS	76	(1954)	5692
$C_7H_{11}Cl$	cis-5-Methyl-2-cyclo-hexenyl chloride	-	L	Band anal	Goering	JACS	77	(1955)	4042
$C_7H_{11}Cl$	trans-5-Methyl-2-cyclo-hexenyl chloride	-	L	Band freq	Goering	JACS	77	(1955)	4042
$C_7H_{11}Cl$	Norbornyl chloride	1600-2800	-	Spec	Roberts	JACS	76	(1954)	5692

$C_7H_{11}Cl$	Norbornyl chloride	1600-2800	-	Spec	Roberts	JACS	71	(1949)	3049
$C_7H_{11}Cl$	endo-Norbornyl chloride	2.5-15μ	Sol	Spec, Solvolysis rate	Roberts	JACS	72	(1950)	3329
$C_7H_{11}Cl$	exo-Norbornyl chloride	2.5-15μ	Sol	Spec, Solvolysis rate	Roberts	JACS	72	(1950)	3329
$C_7H_{11}ClO$	2-Chlorocycloheptanone	-	L	Band freq, Struct	Scott	JACS	72	(1950)	240
		-	Sol	Band freq, Shift, Table	Corey	JACS	75	(1953)	2301
$C_7H_{11}ClO$	Diethylchloroethynyl carbinol	-	-	Weak band	McLamore	JOC	20	(1955)	109
$C_7H_{11}ClO_4$	Diethyl chloromalonate	2-15μ	L	Spec, Freq , Splitting	Abramovitch	CJC	36	(1958)	151
$C_7H_{11}ClO_4$	Ethyl β-chloroethyl malonate	-	-	Ident	Hart	JACS	17	(1955)	3138
$C_7H_{11}Cl_2NO$	4,5-Dichloro-2,2-dimethylpentanonitrile-N-oxide	600-3000	Sol	Spec	Wiley	JOC	25	(1960)	546
$C_7H_{11}I$	1-Iodo-2-heptyne	-	L	Group freq, I	Allan	JCS	-	(1955)	1874
$C_7H_{11}IO$	Diethyliodoethynylcarbinol	-	-	Weak band	McLamore	JOC	20	(1955)	109
$C_7H_{11}N$	trans-t-Butylacrylonitrile	-	-	Band freq	Corey	JACS	75	(1953)	1163
$C_7H_{11}N$	2-Propylpyrrole	-	-	Ident	Herz	JACS	76	(1954)	576
$C_7H_{11}N$	3-Carbamyl-1,2-hexadiene	-	S	Band freq	Wotiz	JACS	74	(1952)	1860
$C_7H_{11}NO$	2-Azabicyclo[2,2,2]octan-3-one	1600-1800	Sol	Freq	Hall	JACS	80	(1958)	6428
$C_7H_{11}NO$	6-Azabicyclo [3,2,1]octan-7-one	1600-1800	Sol	Freq	Hall	JACS	80	(1958)	6428

$C_7H_{11}NO$	Cyclohexanone cyanohydrin	3 μ	Sol	Freq, H bond	Flett	SA	10 (1958)	21
$C_7H_{11}NO$	1,6-Dimethyl-5,6-dihydro-2-pyridone	3600-600	L	Spec, Table, Absorption bands	Edwards	CJC	32 (1954)	683
$C_7H_{11}NO.HCl$	6-keto-1-azabicyclo [3.2.1] octane hydrochloride	-	-	Band freq	Leonard	JACS	75 (1953)	6249
$C_7H_{11}NOS$	trans-2-Hydroxycyclohexylthiocyanate	-	-	Absorbance	Vantamelen	JACS	73 (1951)	3444
$C_7H_{11}NO_2$	α-Ethylglutarimide	2-15 μ	Sol	Spec, Struct anal	Kornfeld	JACS	71 (1949)	150
$C_7H_{11}NO_2$	β-Ethylglutarimide	2-15 μ	Sol	Spec, Struct anal	Kornfeld	JACS	71 (1949)	150
$C_7H_{11}NO_2$	N-Acetyl-2-piperidone	1600-1800	Sol	Freq	Hall	JACS	80 (1958)	6428
$C_7H_{11}NO_2$	5-Methyl-2-nitro-2,4-hexadiene	-	-	Group freq	Shechter	JACS	76 (1954)	2716
$C_7H_{11}NO_2$	2-Oxa-4-azabicyclo [3,3,1] -nonan-3-one	1600-1800	Sol	Freq	Hall	JACS	80 (1958)	6428
$C_7H_{11}NO_2$	2-Oxa-4-azabicyclo [3,2,2]-nonan-3-one	1600-1800	Sol	Freq	Hall	JACS	80 (1958)	6428
$C_7H_{11}NO_3$	Methylisopropenylmalonamic acid	-	-	Anal	Corey	JACS	75 (1953)	1163
$C_7H_{11}NO_3$	3-Butyloxazolid-2,4-dione	650-4000	Sol	Spec	Pianka	JCS	- (1960)	983
$C_7H_{11}NO_3$	4-Carbamyl-4-hydroxy-2,3-dimethylbutanoic lactone	696-3448	S	Table, Group freq	Ames	JCS	- (1954)	375

$C_7H_{11}NO_3S$	2,2-Carboxyethyl-4-thiazolidone methyl ester	-	Sol	Band freq	Pennington	JACS	75 (1953)	109
$C_7H_{11}NO_4$	3-N-Acetoxyiminopentanoic acid	-	S	Freq	Freeman	JACS	80 (1958)	5954
$C_7H_{11}NO_4$	Ethyl α-nitro Δ^4-pentenoate	-	-	Group freq	Emmons	JACS	77 (1955)	4391
$C_7H_{11}NS$	5,5-Dimethyl-2-vinyl-3-thiopyrroline	6.30 μ	Sol	Substituent effect	Meyers	JOC	24 (1959)	1233
$C_7H_{11}N_3O$	2-Amino-3-ethyl-4-methyl-6-ketopyrimidine	2-25 μ	S	Spec, Group freq	Short	JCS	- (1952)	168
$C_7H_{11}N_3O$	2-Amino-4-methyl-6-ethoxypyrimidine	2-25 μ	S	Spec, Group freq	Short	JCS	- (1952)	168
$C_7H_{11}N_3O$	2-Dimethylamino-4-hydroxy-6-methyl-pyrimidine	2-25 μ	S	Spec, Group freq	Short	JCS	- (1952)	168
$C_7H_{11}N_3O$	1-Ethyl-2-amino-4-methyl-6-ketopyrimidine	2-25 μ	S	Spec, Group freq	Short	JCS	- (1952)	168
$C_7H_{11}N_3O_2$	2-Methyl-4,6-dimethoxy-5-aminopyrimidine	2-25 μ	S	Spec, Group freq	Short	JCS	- (1952)	168
$C_7H_{11}N_3S$	4-Methylamino-2-methylthio-6-methylpyrimidine	2-15 μ	S	Spec, Group freq, Assign	Brownlie	JCS	- (1950)	3062
C_7H_{12}	Bicyclo[2.2.1]heptane	-	-	Spec	Roberts	JACS	71 (1949)	3049
		-	L	Ident	Hine	JACS	77 (1955)	594
C_7H_{12}	Bicyclo[4.1.0]heptane	-	-	Ident	Doering	JACS	76 (1954)	6162

C_7H_{12}	cis-Cycloheptene	-	-	Anal, Ident	Cope	JACS	75	(1953)	3212
C_7H_{12}	2-Cyclopropyl-1-butene	-	L,Sol	Band freq	Slabey	JACS	76	(1954)	3604
C_7H_{12}	2-Cyclopropyl-2-butene H.B.	-	L,Sol	Band freq	Slabey	JACS	76	(1954)	3604
C_7H_{12}	2-Cyclopropyl-2-butene H.B.	-	L,Sol	Band freq	Slabey	JACS	76	(1954)	3604
C_7H_{12}	4,4-Dimethylcyclopentene	-	-	NCA, Assign	Beachell	JCP	30	(1959)	1489
C_7H_{12}	3-Ethylpent-1-en-3-yne	-	-	Band freq	Bergmann	JAPC	3	(1954)	97
C_7H_{12}	1,2-Heptadiene	-	L	Spec, Anal	Wotiz	JACS	73	(1951)	693
		-	-	Strong band	Wotiz	JACS	74	(1952)	1860
C_7H_{12}	2,4-Heptadiene	-	L	Spec, Anal	Wotiz	JACS	73	(1951)	693
C_7H_{12}	n-1-Heptyne	2-15μ	L	Spec	Wotiz	JACS	71	(1949)	3441
		-	L	Spec, Anal	Wotiz	JACS	73	(1951)	693
C_7H_{12}	n-2-Heptyne	2-15μ	L	Spec	Wotiz	JACS	71	(1949)	3441
		-	L	Spec, Anal	Wotiz	JACS	73	(1951)	693
C_7H_{12}	n-3-Heptyne	1-30μ	G	Spec	Kettering	P	4	(1933)	39
		2-15μ	L	Spec	Wotiz	JACS	71	(1949)	3441
		-	L	Spec, Anal	Wotiz	JACS	73	(1951)	693
C_7H_{12}	2-Isopropyl-1,3-butadiene	650-3900	-	Spec	Marvel	JACS	70	(1948)	3842
C_7H_{12}	Isopropylidene-cyclobutane	2-15μ	L	Synthesis	Derter	JACS	71	(1949)	2482
		2-15μ	L	Synthesis	Derter	JACS	71	(1949)	175
C_7H_{12}	1-Methyl-1-cyclohexene	2.6-3.8μ	Sol	Spec, Assign	Fox	PRS	175	(1940)	208

		-	L	Anal	Arnold	JOC	15	(1950)	1256
		-	-	Anal, Ident	Goering	JACS	74	(1952)	3588
		-	-	Band freq	Arnold	JACS	75	(1953)	5396
		-	L	Band freq, Anal	Nevitt	JACS	76	(1954)	4124
		-	-	Anal	Hawkins	JCS	-	(1955)	1462
		5000-700	Sol	Quant anal	Pinchas	AC	30	(1958)	1863
		3400-3800	Sol	H bond	West	JACS	81	(1959)	1614
C_7H_{12}	3-Methyl-1-cyclohexene	-		Anal	Arnold	JOC	15	(1950)	1256
		5000-700	Sol	Quant anal	Pinchas	AC	30	(1958)	1863
C_7H_{12}	4-Methyl-1-cyclohexene	-	L	Anal	Arnold	JOC	15	(1950)	1256
		5000-700	Sol	Quant anal	Pinchas	AC	30	(1958)	1863
C_7H_{12}	Methylenecyclohexane	-	-	Band freq	Arnold	JACS	75	(1953)	5396
		-	L	Band freq, Anal	Nevitt	JACS	76	(1954)	4124
		-	-	Ident	Bailey	JACS	77	(1955)	357
C_7H_{12}	2-Methyl-3-ethyl-1,3-butadiene	-	-	Band freq	Marvel	JACS	74	(1952)	1506
$C_7H_{12}D_2O$	2,4-Dimethyl-3-pentanone -2,4-d_2	800-5000	Sol	Freq, Assign	Karabatasos	JOC	25	(1960)	315
$C_7H_{12}ClNO_3$	Butyl N-chloroacetyl-carbamate	650-4000	Sol	Spec	Pianka	JCS	-	(1960)	983
$C_7H_{12}ClNO_3$	Ethyl N-chloroacetyl-N-ethylcarbamate	650-4000	Sol	Spec	Pianka	JCS	-	(1960)	983
$C_7H_{12}ClNO_4$	Ethyl δ-chloro-α-nitro-pentanoate	-	-	Band freq	Emmons	JACS	77	(1955)	4391
$C_7H_{12}Cl_2F_2O$	1,1-Difluoro-2,2-dichloro-ethyl n-amyl ether	3-15 μ	G,L	Spec	Park	JACS	73	(1951)	861
$C_7H_{12}Cl_2F_2Si$	2,2-Dichloro-3,3-difluoro-cyclobutyltrimethyl-silane	10.85-11.1 μ	-	Freq	Park	JOC	25	(1960)	1628

$C_7H_{12}Cl_2O_3$	Bis-1-Chloroisopropyl carbonate	-	L	Freq , Struct	Hales	JCS	-	(1957)	618
$C_7H_{12}F_4O$	1,1,2,2-Tetrafluoroethyl n-amyl ether	2-15μ	G,L	Spec	Park	JACS	73	(1951)	1329
$C_7H_{12}F_4Si$	2,3-Tetrafluorocyclobutyl-trimethylsilane	10.85-11.1μ	-	Freq	Park	JOC	25	(1960)	1628
$C_7H_{12}N_2O$	1,3-Dimethyl-5-ethoxy-pyrazole	2.4-4.5μ	-	Spec	Bogunets	OS	5	(1958)	707
$C_7H_{12}N_2O$	2,4-Dimethyl-5-ethoxy-pyrazole	2.4-4.5μ	-	Spec	Bogunets	OS	5	(1958)	707
$C_7H_{12}N_2OS$	1,3-Diethyl-2-thio-hydantoin	2500-800	S	Band assign	Elmore	JCS	-	(1958)	3489
$C_7H_{12}N_2O_2$	1,2-Cycloheptanedione dioxime	2-16μ	S	Spec, H bond	Voter	AC	23	(1951)	1730
$C_7H_{12}N_2O_4$	N,O-Diacetylserinamide	2-0μ	Sol	Spec, Freq	Jencks	ABB	88	(1960)	193
$C_7H_{12}N_2O_4$	3-Methyl-4-(2-nitro-2-propyl)-isoxazoline oxide	2-16μ	Sol	Spec, Group freq	Shechter	JACS	76	(1954)	2716
$C_7H_{12}O$	Cycloheptanone	-	L	Band freq, Struct	Scott	JACS	72	(1950)	240
		-	Sol	Band freq, Table, Struct	Corey	JACS	75	(1953)	2301
		-	-	Band study	Goldman	JACS	76	(1954)	5789
		-	L	Ident	Meinwald	JACS	77	(1955)	4401
		-	Sol	Band freq	Pauson	CR	55	(1955)	9
		-	L	Band freq	Schubert	JACS	77	(1955)	4172
		1600-1800	Sol	Freq	Hall	JACS	80	(1958)	6428
		-	Sol	Carbonyl maximum	Leonard	JACS	80	(1958)	6039
		-	Sol	I, Freq	Thompson	SA	13	(1958)	236
		-	Sol	H bond	Thamres	JACS	81	(1959)	2100

		-	Sol	Stretch freq	Burer	HCA	43 (1960) 1487
$C_7H_{12}O$	1-Cyclohexenylcarbinol	-	-	Band freq	Arnold	JACS	75 (1953) 5396
		-	-	Group freq, Struct	Dreiding	JACS	75 (1953) 939
$C_7H_{12}O$	Cyclopentyl methyl ketone	5-7 μ	L	Band freq, Rate study	Friess	JACS	74 (1952) 1302
$C_7H_{12}O$	Cyclopropyl isopropyl ketone	2-14.5 μ	L	Spec, Table, Band freq	Wiberley	AC	24 (1952) 623
		-	L,Sol	Band freq	Slabey	JACS	76 (1954) 3604
$C_7H_{12}O$	2-Ethoxy-1,3-pentadiene	-	-	Spec, Freq	Petrov	ZOK	28 (1958) 71
$C_7H_{12}O$	Ethylcyclopentanone	-	Sol	Band assign, Taut	Movsesyan	IANS	22 (1958) 1126
$C_7H_{12}O$	1,2-Heptadien-4-ol	2-5.5 μ	Sol	Spec	Celmer	JACS	75 (1953) 3430
$C_7H_{12}O$	1-Heptynol-3	2-16 μ	L	Spec, Table	Wotiz	JACS	72 (1950) 5055
$C_7H_{12}O$	1-Heptynol-4	-	-	Group freq	Clemer	JACS	75 (1953) 3430
$C_7H_{12}O$	2-Heptynol-1	2-15 μ	L	Spec	Wotiz	JACS	71 (1949) 3441
		-	L	New bands studied	Wotiz	JACS	72 (1950) 5055
$C_7H_{12}O$	3-Heptynol-1	2-15 μ	L	Spec	Wotiz	JACS	71 (1949) 3441
		-	-	Group freq	Crombie	JCS	- (1952) 4338
$C_7H_{12}O$	4-Heptynol-1	2-15 μ	L	Spec	Wotiz	JACS	71 (1949) 3441
$C_7H_{12}O$	5-Heptynol-1	2-15 μ	L	Spec	Wotiz	JACS	71 (1949) 3441
$C_7H_{12}O$	6-Heptynol-1	2-15 μ	L	Spec	Wotiz	JACS	71 (1949) 3441
$C_7H_{12}O$	1-Methoxycyclohex-2-ene	650-3100	Sol	Spec	Henbest	JCS	- (1957) 997
		-	-	Methoxyl group detection	Henbest	JCS	- (1957) 1462

$C_7H_{12}O$	1-Methoxycyclohex-3-ene	650-3100	Sol	Spec	Henbest	JCS	-	(1957)	997
		-	-	Methoxyl group detection	Henbest	JCS	-	(1957)	1462
$C_7H_{12}O$	m-Methylcyclohexanone	-	-	Ident	Eisenbraan	JACS	77	(1955)	3383
		4000-400	Sol	Spec, Substitution	Cummins	JCS	-	(1957)	3847
$C_7H_{12}O$	o-Methylcyclohexanone	400-4000	Sol	Spec, Ext coeff, Struct	Cummins	JCS	-	(1957)	3847
		5-7μ	Sol	Spec, Taut	Campbell	JACS	82	(1960)	5426
$C_7H_{12}O$	p-Methylcyclohexanone	1800-1650	Sol	Ext coeff	Cross	TFS	47	(1951)	354
		400-4000	Sol	Spec, Ext coeff, Struct	Cummins	JCS	-	(1957)	3847
		5-7μ	Sol	Spec, Taut	Campbell	JACS	82	(1960)	5426
$C_7H_{12}O$	cis-5-Methyl-2-cyclo-hexenol	-	Sol	Band freq & Anal	Goering	JACS	76	(1954)	5405
		-	Sol	Anal, Ident	Goering	JACS	77	(1955)	1129
$C_7H_{12}O$	trans-5-Methyl-2-cyclo-hexenol	-	Sol	Band freq & Anal	Goering	JACS	76	(1954)	5405
		-	Sol	Anal, Ident	Goering	JACS	77	(1955)	1129
$C_7H_{12}O$	2-Methylenecyclohexanol	-	-	Group freq, Struct	Dreiding	JACS	75	(1953)	939
$C_7H_{12}O$	n-Propyl cyclopropyl ketone	-	L,Sol	Band freq	Slabey	JACS	76	(1954)	3604
$C_7H_{12}OS$	1-Ethylthio-1-penten-3-one	1500-1800	Sol	Freq, Struct	Leonard	JACS	81	(1959)	595
$C_7H_{12}OS$	6-Methylthiocyclohex-2-enol	-	-	Strong band	Bateman	JCS	-	(1955)	1996
$C_7H_{12}O_2$	n-Butyl acrylate	800-2000	-	Spec, Anal	Barnes	IEC	15	(1943)	659
		2-15μ	L	Spec, Assign	Walton	JACS	79	(1957)	3985
		-	Sol	Freq, I	Thompson	SA	13	(1958)	236
		800-1800	-	Band characteristics, Assign	Katritzky	SA	16	(1960)	954
		-	-	Band characteristics, Assign	Katritzky	SA	16	(1960)	964

$C_7H_{12}O_2$	Cyclohexanoic acid	700-1500	S	Spec, Assign	Hadzi	PRS	216	(1953)	247
		-	Sol	Freq, Dissociation const	Goulden	SA	6	(1954)	129
		892-1307	-	Table, Ident	Loftfield	JACS	76	(1954)	35
		-	-	νOH, νOD	Bratoz	SA	8	(1956)	249
		8-13μ	-	Spec	Eliel	SA	10	(1958)	423
$C_7H_{12}O_2$	Cyclohexyl formate	-	Sol	Freq, I	Thompson	SA	13	(1958)	236
$C_7H_{12}O_2$	Diallylformal	-	Sol	Band freq, Ext coeff	Davison	JCS	-	(1953)	2607
$C_7H_{12}O_2$	cis-2,7-Dihydroxybicyclo [2.2.1]heptane	-	Sol	Band freq	Kwart	JACS	76	(1954)	5400
$C_7H_{12}O_2$	endo-cis-2,3-Dihydroxy-bicyclo[2.2.1]heptane	-	Sol	Band freq	Kwart	JACS	76	(1954)	5400
$C_7H_{12}O_2$	exo-cis-2,3-Dihydroxy-bicyclo[2.2.1]heptane	-	Sol	Band freq	Kwart	JACS	76	(1954)	5400
$C_7H_{12}O_2$	Ethyl 3-methylbut-2-enoate	-	Sol	Band freq	Felton	JCS	-	(1955)	2170
$C_7H_{12}O_2$	Ethyl 2-methylcyclo-propanecarboxylate	-	-	Correlation	Washburn	JACS	80	(1958)	504
$C_7H_{12}O_2$	cis-Δ^2-Heptenoic acid	-	-	Band freq, Struct	Crombie	JCS	-	(1952)	2997
$C_7H_{12}O_2$	trans-Δ^2-Heptenoic acid	-	-	Band freq, Struct	Crombie	JCS	-	(1952)	2997
$C_7H_{12}O_2$	cis-Δ^4-Heptenoic acid	-	-	Struct freq	Crombie	JCS	-	(1952)	2997
$C_7H_{12}O_2$	trans-Δ^4-Heptenoic acid	-	-	Band freq, Struct	Crombie	JCS	-	(1952)	2997
$C_7H_{12}O_2$	p-Methoxycyclohexanone	-	-	Methoxyl group detection	Henbest	JCS	-	(1957)	1462
		5-17μ	Sol	Spec, Taut	Compbell	JACS	82	(1960)	5426

$C_7H_{12}O_2$	3-Methyl-3-buten-1-ol acetate	-	-	Band freq	Blomquist	JACS	77	(1955)	78
$C_7H_{12}O_2$	2-Methylenehexanoic acid	600-1900	Sol	Spec, Table, I	Cason	JOC	19	(1954)	1947
$C_7H_{12}O_2$	Methyl 2-hexenoate	200-3200	-	Spec, Assign	Hidalgo	ARS	52B	(1956)	627
$C_7H_{12}O_2$	Methyl 3-hexenoate	200-3200	-	Spec, Assign	Hidalgo	ARS	52B	(1956)	627
$C_7H_{12}O_2$	Methyl trans-4-hexenoate	-	L	Bending freq	Crombie	JCS	-	(1955)	1007
$C_7H_{12}O_2$	Methyl 5-hexenoate	200-3200	-	Spec, Assign	Hidalgo	ARS	52B	(1956)	627
$C_7H_{12}O_2$	cis-2-Methyl-2-hexenoic acid	600-1900	Sol	Spec, Table, I	Cason	JOC	19	(1954)	1947
$C_7H_{12}O_2$	trans-2-Methyl-2-hexenoic acid	600-1900	Sol	Spec, Table,I	Cason	JOC	19	(1954)	1947
$C_7H_{12}O_2$	2,2,4,4-Tetramethyl-3-oxetanone	-	-	Struct	Murr	JACS	77	(1955)	4430
$C_7H_{12}O_2$	Vinyl trimethylacetate	2.8-4.5μ	G,L	Spec, Band freq	Adelman	JOC	14	(1949)	1057
$C_7H_{12}O_3$	3,5-Dihydroxy-2,4-dimethylpentanoic acid -δ-lactone	-	-	Band freq	Wiley	JACS	77	(1955)	3677
$C_7H_{12}O_3$	2,2-Dimethoxy-2,3-dihydropyran	-	-	Band freq	Mcelvain	JACS	76	(1954)	5736
$C_7H_{12}O_3$	Ethyl β-acetylpropionate	1200-2000	Sol	Band freq	Bender	JACS	75	(1953)	6304
$C_7H_{12}O_3$	Ethyl α-methylacetoacetate	2-15μ	-	Absorption freq, Struct, Anal	Rasmussen	JACS	71	(1949)	1073
$C_7H_{12}O_3$	Ethyl tetrahydrofuroate	1600-1800	Sol	Rotation Iso, Assign, Struct	House	JACS	80	(1958)	6389
$C_7H_{12}O_3$	Glycolyl butyrate	2-15μ	L,Sol	Spec, Group freq	Patterson	AC	26	(1954)	[illegible]

$C_7H_{12}O_3$	Glycidyl butyrate	2-15μ	L,Sol	Spec, Group freq	Patterson	AC	26 (1954)	823
$C_7H_{12}O_3$	cis-2-Hydroxycyclo-hexanecarboxylic acid	-	Sol	Group & Band freq	Zimmerman	JACS	75 (1953)	2367
$C_7H_{12}O_3$	trans-2-Hydroxycyclo-hexanecarboxylic acid	-	Sol	Group & Band freq	Zimmerman	JACS	75 (1953)	2367
$C_7H_{12}O_4$	4-t-Butoxy-1,3-dioxol-2-one	-	-	Band freq	Newman	JACS	77 (1955)	3789
$C_7H_{12}O_4$	1,3-Diacetoxypropane	-	-	Band study	Smith	JACS	73 (1951)	5282
$C_7H_{12}O_4$	Diethyl malonate	7-2.5μ	L	Band study	Ellis	JACS	51 (1929)	1384
		5.5-6.5μ	L	Spec, H bond	Gordy	JCP	8 (1940)	516
		1200-2000	Sol	Band freq	Bender	JACS	75 (1953)	6304
		-	Sol	Band freq	Felton	JCS	- (1955)	2170
		-	-	Ident	Hart	JACS	77 (1955)	3138
		2-15μ	Sol	Spec	Washburn	AC	27 (1955)	1812
		2-15μ	Sol	Spec, Freq, Splitting	Abramovitch	CJC	36 (1958)	151
		3-6μ	S,Sol	Spec	Abramovitch	CJC	37 (1959)	361
		1700-1800	Sol	Rotation, Iso, Coupling	Abramovitch	CJC	37 (1959)	1146
$C_7H_{12}O_4$	Diethylmalonic acid	2.8-4.1μ	Sol	Spec, H bond	Wall	JACS	61 (1939)	2812
$C_7H_{12}O_4$	Dimethyl glutarate	670-3500	L,S	Spec, Struct	Corish	JCS	- (1958)	927
$C_7H_{12}O_4$	α-Ethylglutaric acid	-	-	Ident, Table	Mislow	JACS	77 (1955)	3807
$C_7H_{12}O_4$	Heptanedioic acid	670-2000	S,L	Spec	Corish	JCS	- (1955)	2431
$C_7H_{12}O_4$	Methyl 3:6-anhydro-2-deoxy-α-D-galacto-pyranoside	700-1000	S	Group & Band freq, I	Barker	JCS	- (1954)	4550
$C_7H_{12}O_4$	Methyl 3:6 anhydro-2-deoxy-α-D-Glucopyranoside	700-1000	S	Group & Band freq, I	Barker	JCS	- (1954)	4550

$C_7H_{12}O_4$	Propionaldehyde diacetate	2-15μ	-	Absorption freq, Struct anal	Rasmussen	JACS	71	(1949)	1073
		-	-	Band study	Smith	JACS	73	(1951)	5282
		-	-	Group freq	Goodwin	JACS	76	(1954)	5599
$C_7H_{12}O_5$	2:5-Di-O-methyl-L-arbono-γ-Lactone	1700-1800	S	Freq	Barker	CIL	-	(1958)	658
$C_7H_{12}O_5$	3:4-Di-O-methyl-D-xylono-δ-Lactone	1700-1800	S	Freq	Barker	CIL	-	(1958)	658
$C_7H_{12}O_5$	1-α-Methoxyadipic acid	-	S	Ident	Noyce	JACS	76	(1954)	3630
$C_7H_{12}O_5$	Methyl 3:6-anhydro-α-D-galactopyranoside	700-1000	S	Group & Band freq, I	Barker	JCS	-	(1954)	4550
$C_7H_{12}O_5$	Methyl 3:6-anhydro-α-D-glucopyranoside	700-1000	S	Group & Band freq, I	Barker	JCS	-	(1954)	4550
$C_7H_{12}O_5$	Methyl 3:6-anhydro-D-mannofuranoside	700-1000	S	Group & Band freq, I	Barker	JCS	-	(1954)	4550
$C_7H_{12}O_5$	Methyl 3:6-anhydro-α-D-mannopyranoside	700-1000	S	Group & Band freq, I	Barker	JCS	-	(1954)	4550
$C_7H_{12}O_5$	Methyl 3:6-anhydro-β-D-mannopyranoside	700-1000	S	Group & Band freq, I	Barker	JCS	-	(1954)	4550
$C_7H_{12}O_5$	Methyl glycolate acetoxy acetal	-	-	Group study	Adelman	JACS	75	(1953)	2678
$C_7H_{12}O_6$	Quinic acid	700-5000	S	Spec	Weiss	JACS	75	(1953)	5572
$C_7H_{12}O_6Si$	Methyltriacetoxy-silane	0-8μ	Sol	Spec, Freq	Okawara	JACS	82	(1960)	3287
$C_7H_{12}O_7$	D-Gluco-α-hepton Lactone	8-15μ	S	Spec	Kuhn	AC	22	(1950)	276
$C_7H_{12}S$	Cyclohexenyl methyl	-	-	Ident	Bateman	JCS	-	(1955)	1996

$C_7H_{12}S$	Cyclohexenyl methyl sulfide	-	-	Ident	Bateman	JCS	-	(1955)	1996
$C_7H_{13}D$	1-Heptene-d_1	3300	Sol	Mol association	Josien	CPR	251	(1960)	1379
$C_7H_{13}Br$	4-Bromo-2-heptene	-	-	Band freq	Greenwood	JACS	75	(1953)	4842
$C_7H_{13}Br$	1-Bromo-4-methyl-3-hexene	6-13μ	-	Ident	Slabey	JACS	74	(1952)	1473
$C_7H_{13}Br$	6-Bromo-2-methyl-1-hexene	-	-	Ident	Smith	JACS	73	(1951)	5273
$C_7H_{13}Br$	6-Bromo-2-methyl-2-hexene	-	-	Ident	Smith	JACS	73	(1951)	5273
$C_7H_{13}BrN_2O_2$	Carbromal	2-16μ	Sol	Spec, Table	Umberger	AC	24	(1952)	1309
$C_7H_{13}ClO_3$	n-Hexyl chloro-carbonate	-	S	Band freq	Ory	SA	16	(1960)	1488
$C_7H_{13}Cl_3N_2$	N-n-Amyltrichloro-acetamidine	1000-3500	L,Sol	Assign, Struct, H bond	Grivas	CJC	37	(1959)	795
$C_7H_{13}IO$	3-Iodoheptanone-2	-	-	Ident	Djerassi	JACS	75	(1953)	3493
$C_7H_{13}N$	1-Allylpyrrolidine	-	L	Band freq	Leonard	JACS	76	(1954)	2781
$C_7H_{13}N$	1,2-Dimethyl-Δ^2-tetra-hydropyridine	-	L	Band freq	Leonard	JACS	76	(1954)	2781
$C_7H_{13}N$	1-Ethyl-Δ^3-tetrahydro-pyridine	-	L	Group freq	Leonard	JACS	76	(1954)	2781
$C_7H_{13}N$	Heptanenitrile	-	-	Band freq, I	Kitson	AC	24	(1952)	334

$C_7H_{13}N$	1-Pyrrolidino-1-propene	-	Sol	Spec	Opitz	A	23 (1959)	112
$C_7H_{13}N$	Quinuclidine	-	G	Micro spec	Johnson	JCP	33 (1960)	949
$C_7H_{13}N.HBr$	1-Allylpyrrolidine hydrobromide	-	S	Band freq	Leonard	JACS	76 (1954)	2781
$C_7H_{13}NO$	N-Acetylpiperidine	-	L	Ident	Snyder	JACS	76 (1954)	118
$C_7H_{13}NO$	3-Acetylpiperidine	-	L	Band freq	Leonard	JACS	75 (1953)	6249
$C_7H_{13}NO$	β-t-Butoxypropionitrile	665-5000	L	Freq	Ory	AC	32 (1960)	509
$C_7H_{13}NO$	N-t-Butylacrylamide	946-3450	-	Table, I	Roe	JACS	75 (1953)	5479
$C_7H_{13}NO$	N,N-Dimethyl-3-methyl-2-butenamide	-	-	Anal	Corey	JACS	75 (1953)	1163
$C_7H_{13}NO$	N,N-Dimethyl-3-methyl-3-butenamide	-	-	Anal	Corey	JACS	75 (1953)	1163
$C_7H_{13}NO$	1,6-Dimethyl-2-piperidone	3600-600	L	Spec, Table, Absorption bands	Edwards	CJC	32 (1954)	683
$C_7H_{13}NO$	N-Methylcaprolactum	1600-1800	L,Sol	Freq	Hall	JACS	80 (1958)	6428
$C_7H_{13}NO$	Norpseudotropine	-	Sol	Ident	Nickon	JACS	74 (1952)	5566
$C_7H_{13}NO$	2-Oxoheptamethylenimine	1600-1800	Sol,S	Freq, Assign	Hall	JACS	80 (1958)	6428
$C_7H_{13}NO_2$	N-Acetoxypiperidine	-	-	Freq shift	Freeman	JACS	80 (1958)	5954
$C_7H_{13}NO_3S$	β,β-Dimethylacetylcysteine	2-15μ	S	Spec, Anal, Struct	Fuson	JACS	74 (1952)	1

$C_7H_{13}NO_4$	Ethyl α-nitropentanoate	-	-	Band freq	Emmons	JACS	77 (1955) 4391
$C_7H_{13}NO_4$	4-Methyl-5-hydroxy-6-nitro-3-hexanone	-	-	Group & Band freq	Leonard	JOC	17 (1952) 1262
$C_7H_{13}NO_5$	Ethyl β-hydroxy-γ-nitrovalerate	-	-	Group & Band freq	Leonard	JOC	17 (1952) 1262
$C_7H_{13}NO_5$	Ethyl α-methyl-β-hydroxy γ-nitrobutyrate	-	-	Group & Band freq	Leonard	JOC	17 (1952) 1262
$C_7H_{13}NO_5$	Isoamylglycolate nitrate	-	L	Group freq	Kumler	JACS	75 (1953) 4346
$C_7H_{13}NS$	t-Butyl-2-thiazoline	-	-	Spec freq	Roggers	CPR	249 (1959) 2529
$C_7H_{13}NS$	N-Thioacetylpiperidine	856-2930	S	Freq, Table	Marvel	JACS	77 (1955) 5997
$C_7H_{13}N_3O$	Cyclohexanone semicarbazone	700-3500	S	Assign, Ident	Davison	JCS	- (1955) 3389
$C_7H_{13}N_3O_3$	Acetylglycylglycin-N-methylamide	2-16μ	S	Spec, Group assign, I	Asai	JPC	59 (1955) 322
$C_7H_{13}N_3O_4$	Glycylalanylglycine(L,D)	625-5000	S	Freq, Assign	Ellenbogen	JACS	78 (1956) 363
$C_7H_{13}N_3O_4$	Triglycine methylester	4000-650	S	Spec, Struct	Blout	JACS	74 (1952) 1946
$C_7H_{13}N_5O$	2-Butoxy-4,6-diamino-1,3,5-triazine	2-16μ	S	Spec, Struct	Padgett	JACS	80 (1958) 803
C_7H_{14}	n-Butylcyclopropane	-	-	Ident	Gragson	JOC	20 (1955) 275
C_7H_{14}	Cycloheptane	-	-	Anal	Pines	JACS	74 (1952) 5544
		-	-	Ident	Doering	JACS	76 (1954) 3203
C_7H_{14}	2-Cyclopropylbutane	-	L,Sol	Band freq	Slabey	JACS	76 (1954) 3604
		15-35μ	S	Spec, Struct	Bentley	SA	15 (1959) 165

C_7H_{14}	1,1-Diethylcyclopropane	2-15 μ	L	Spec, Assign	Derfer	JACS	71	(1949)	2482
C_7H_{14}	1,1-Dimethylcyclopentane	2-15 μ	L	Spec	Plyler	JRNB	38	(1947)	211
		-	-	Thermo	Epstein	JRNB	43	(1949)	245
		-	G	Anal	Bell	AC	22	(1950)	1005
		7-11 μ	-	Band freq	Pines	JACS	73	(1951)	5738
		-	-	Group anal & absorption	Hastings	AC	24	(1952)	612
C_7H_{14}	1-cis-2-Dimethylcyclopentane	1.1-1.8 μ	L	Spec	Liddel	JRNB	11	(1933)	599
		2-15 μ	L	Spec	Plyler	JRNB	38	(1947)	211
		-	L	Anal	Anderson	AC	21	(1949)	911
		-	-	Thermo	Epstein	JRNB	43	(1949)	245
		2-4.2 μ	Sol	Spec, Assign	Plyler	JRNB	43	(1949)	37
		-	G	Anal	Bell	AC	22	(1950)	1005
		-	-	Group anal & absorbance	Hastings	AC	24	(1952)	612
C_7H_{14}	1-trans-2-Dimethylcyclopentane	1.1-1.8 μ	L	Spec	Liddle	JRNB	11	(1933)	599
		2-15 μ	L	Spec	Plyler	JRNB	38	(1947)	211
		-	L	Anal	Anderson	AC	21	(1949)	911
		-	-	Thermo	Epstein	JRNB	43	(1949)	245
		2-4.2 μ	Sol	Spec, Assign	Plyler	JRNB	43	(1949)	37
		-	G	Anal	Bell	AC	22	(1950)	1005
		-	-	Anal	Clark	JACS	74	(1952)	1030
		-	-	Group anal & absorbance	Hastings	AC	24	(1952)	612
		-	-	Anal	Pines	JACS	76	(1954)	2740
		-	-	Ident	Pines	JACS	76	(1954)	4417
C_7H_{14}	1,3-Dimethylcyclopentane	8-11 μ	-	Band freq	Pines	JACS	73	(1951)	5738
C_7H_{14}	1-cis-3-Dimethylcyclopentane	-	-	Thermo	Epstein	JRNB	43	(1949)	245
		22-39 μ	L	Absorption freq	Plyler	JCP	17	(1949)	218
		-	G	Anal	Bell	AC	22	(1950)	1005
		-	-	Group anal & Absorbance	Hastings	AC	24	(1952)	612

		-	-	Ident	Birch	JCS	-	(1953)	2477
		-	-	Anal	Pines	JACS	76	(1954)	2740
C_7H_{14}	1-trans-3-Dimethyl-cyclopentane	2-15μ	L	Spec	Plyler	JRNB	38	(1947)	211
		-	L	Anal	Anderson	AC	21	(1949)	911
		-	-	Thermo	Epstein	JRNB	43	(1949)	245
		-	G	Anal	Bell	AC	22	(1950)	1005
		-	-	Anal	Clark	JACS	74	(1952)	1030
		-	-	Group anal & Absorbance	Hastings	AC	24	(1952)	612
		-	-	Anal	Pines	JACS	76	(1954)	2740
		15-35μ	S	Spec, Struct	Bentley	SA	15	(1959)	165
C_7H_{14}	1,2-Dimethyl-3-ethyl-cyclopropane	3-14μ	G	Spec	Bartleson	JACS	68	(1946)	2513
C_7H_{14}	1-cis-2-Dimethyl-cis-3 ethylcyclopropane	2-15μ	L	Spec, Assign	Derfer	JACS	71	(1949)	2482
C_7H_{14}	2,4-Dimethyl-1-pentene	-	-	Anal	Anderson	AC	20	(1948)	998
C_7H_{14}	4,4-Dimethyl-1-pentene	-	-	Anal	Hampton	AC	21	(1949)	923
C_7H_{14}	Ethylcyclopentane	15-24μ	L	Spec	Plyler	JOSA	37	(1947)	746
		-	L	Anal	Anderson	AC	21	(1949)	911
		8000-9000	Sol	Anal	Hibbard	AC	21	(1949)	486
		22-39μ	L	Absorption freq	Plyler	JCP	17	(1949)	218
		2-4.2μ	Sol	Spec, Assign	Plyler	JRNB	43	(1949)	37
		-	G	Anal	Bell	AC	22	(1950)	1005
		-	L	Table, Anal	Ipatieff	JACS	73	(1951)	553
		7-11μ	-	Freq	Pines	JACS	73	(1951)	5738
		-	-	Group anal & Absorbance	Hastings	AC	24	(1952)	612
		-	-	Anal	Pines	JACS	76	(1954)	2740
C_7H_{14}	3-Ethyl-2-pentene	700-1500	-	Spec, Assign	Sheppard	PRS	196	(1949)	195
C_7H_{14}	1-Heptene	-	-	Anal	Hampton	AC	21	(1949)	923
		-	L	Spec, Anal	Wotiz	JACS	73	(1951)	693

		-	-	Group freq, Shift	Bellamy	JCS	-	(1958)	2463
		-	-	Band assign	Harrah	JCP	33	(1960)	298
		-	Sol	Mol association	Josien	CPR	251	(1960)	1379
C_7H_{14}	2-Heptene	-	-	Ident	Greenwood	JACS	75	(1953)	4842
C_7H_{14}	cis-2-Heptene	-	L	Spec, Anal	Wotiz	JACS	73	(1951)	693
C_7H_{14}	trans-2-Heptene	-	L	Spec, Anal	Wotiz	JACS	73	(1951)	693
C_7H_{14}	trans-3-Heptene	1-30μ	G	Spec	Kettering	P	4	(1933)	39
		-	-	Optical density	Johnston	AC	20	(1948)	805
C_7H_{14}	Isopropylcyclobutane	2-15μ	L	Spec, Struct anal	Derfer	JACS	71	(1949)	175
		2-15μ	L	Spec	Derfer	JACS	71	(1949)	2482
		-	-	Ident	Pines	JACS	75	(1953)	2315
C_7H_{14}	Methylcyclohexane	1-1.9μ	L	Spec	Hicks Bruun	JRNB	8	(1932)	525
		1-16μ	G	Spec	Kettering	P	4	(1933)	39
		1.1-1.8μ	Sol	Spec	Liddel	JRNB	11	(1933)	559
		1150-1800	-	Spec	Barnes	IEC	15	(1943)	659
		-	-	Thermo, Struct	Beckett	JACS	69	(1947)	2488
		15-24μ	L	Spec	Plyler	JOSA	37	(1947)	746
		2-15μ	L	Spec	Plyler	JRNB	38	(1947)	211
		-	-	Spec	Barnes	AC	20	(1948)	402
		-	-	Anal	Saier	AC	20	(1948)	812
		-	L	Anal	Anderson	AC	21	(1949)	911
		9-14μ	L	Spec	Foed	AC	21	(1949)	900
		8000-9000	Sol	Anal	Hibbard	AC	21	(1949)	486
		-	L	Anal	Ipatieff	JACS	71	(1949)	2685
		22-39μ	L	Absorption freq	Plyler	JCP	17	(1949)	218
		2-4.2μ	Sol	Spec, Assign	Plyler	JRNB	43	(1949)	37
		-	G	Anal	Bell	AC	22	(1950)	1005
		-	G	Anal	Coggeshall	AC	22	(1950)	381
		-	L	Table, Anal	Ipatieff	JACS	73	(1951)	553
		7-11μ	-	Group freq	Pines	JACS	73	(1951)	5738
		3.3-3.55μ	-	Group anal & Absorbance	Hastings	JACS	24	(1952)	612
		1500-1900	Sol	Spec, Table	Jones	JACS	74	(1952)	5545
		-	-	Anal	Pines	JACS	74	(1952)	5544

		1350-1500	Sol	Spec, Table	Jones	JACS	74	(1952)	5648
		-	-	Anal	Pines	JACS	74	(1952)	5544
		-	-	Anal, Spec	Werber	JACS	74	(1952)	532
		12.6-14.7 μ	Sol	Struct, Group anal	Francis	AC	25	(1953)	1466
		-	-	Ident	Doering	JACS	76	(1954)	6162
		640-1400	Sol	Spec	Haller	JCP	22	(1954)	720
		3-4 μ	L,Sol	Stretch freq	Tallent	AC	28	(1956)	953
		3100-2800	Sol	Group study	Heubest	JCS	-	(1957)	1462
		186-2976	-	Spec, Assign	Aleksandrov	OS	5	(1958)	128
		15-35 μ	S	Spec, Struct	Bentley	SA	15	(1959)	165
C_7H_{14}	2-Methylhexene-1	-	-	Group freq	Sutherland	JACS	75	(1953)	5944
C_7H_{14}	1-Methyl-1-isopropyl-cyclopropane	2-15 μ	L	Spec	Derfer	JACS	71	(1949)	2482
		2-15 μ	L	Spec	Derfer	JACS	71	(1949)	175
C_7H_{14}	1-Methyl-trans-2-propyl-cyclopropane	2-15 μ	L	Spec	Derfer	JACS	71	(1949)	2482
C_7H_{14}	1,1,2,2-Tetramethylcyclo-propane	2-15 μ	G	Spec	Derfer	JACS	71	(1949)	2482
C_7H_{14}	1,1,2,3-Tetramethylcyclo-propane	3-14 μ	L	Spec	Bridson	JCS	-	(1951)	3009
C_7H_{14}	2,3,3-Trimethyl-1-butene	-	L	Quant anal	Fry	JAP	17	(1946)	150
		-	-	Anal	Anderson	AC	20	(1948)	998
		-	Sol	Ext coeff	Barnard	JCS	-	(1950)	915
$C_7H_{14}DNO$	2,4-Dimethyl-3-pentanone oxime-O-d_1	800-4000	Sol	Spec, Freq	Karabotsos	JOC	25	(1960)	1409
$C_7H_{14}D_2O$	2,4-Dimethyl-3-pentanol-2,4-d_2	800-4000	Sol	Spec, Freq	Karabotsos	JOC	25	(1960)	1409
$C_7H_{14}ClNO$	Ethyl α-chloro-N-methyl-iminoisobutyrate	2-16 μ	-	Spec, Struct	Goering	JACS	73	(1951)	4737

$C_7H_{14}ClNO$	1,2-Dimethyl-Δ^2-tetrahydropyridine perchlorate	-	S	Band freq	Leonard	JACS	76	(1954)	2781
$C_7H_{14}ClNO_4$	1-Ethyl-Δ^3-tetrahydropyridine perchlorate	-	S	Band freq	Leonard	JACS	76	(1954)	2781
$C_7H_{14}ClOPS$	Cyclohexylmethylphosphonochloridothionate	740-1500	L	Band assign	McIvor	CJC	37	(1959)	869
$C_7H_{14}INOS$	N-(1-Methylthio-1-ethylidenemorpholine iodide	-	Sol	Band freq	Goulden	JCS	-	(1953)	997
$C_7H_{14}N_2$	Diisopropyl carbodiimide	2300-2000	Sol	I, Stretch freq	Meakins	JCS	-	(1957)	997
$C_7H_{14}N_2O_4$	1,1-Dinitroheptane	-	-	Spec, FC	Novikov	IANS	-	(1959)	1855
$C_7H_{14}N_6$	N-n-Butylmelamine	12-16μ	S	Spec, Struct	Padgett	JACS	80	(1958)	803
$C_7H_{14}N_6$	N-t-Butylmelamine	2-16μ	S	Spec, Struct	Padgett	JACS	80	(1958)	803
$C_7H_{14}O$	t-Amyl methyl ketone	2-13μ	-	Anal	Zook	JACS	77	(1955)	2501
$C_7H_{14}O$	t-Butyl ethyl ketone	2-13μ	-	Anal	Zook	JACS	77	(1955)	2501
$C_7H_{14}O$	Cycloheptanol	2-16μ 665-5000	L L	Spec, Ident Band freq	Smith Zeiss	JACS JACS	74 75	(1952) (1953)	6135 897
$C_7H_{14}O$	Cyclohexylmethanol	2-16μ	L	Spec, Ident	Smith	JACS	74	(1952)	6135
$C_7H_{14}O$	α-Cyclopentylethanol	8.35-12.05μ	L	Table, I, Anal	Smith	JACS	76	(1954)	4564
$C_7H_{14}O$	1,1-Diethyltrimethylene oxide	2564-2689	Sol	H Bond, Band freq	Searles	JACS	73	(1951)	3704
$C_7H_{14}O$	Dipropyl ketone	1600-1800	Sol	Band freq	Bellamy Fuson	JACS JACS	77 76	(1955) (1954)	[illegible]

$C_7H_{14}O$	Dipropyl ketone	2-3.2μ	-	Spec	Sharp	JACS	74	(1952)	1802
		1600-1800	Sol	Band freq	Fuson	JACS	76	(1954)	2526
		-	-	Anal,	Wheller	AC	29	(1957)	538
		-	-	FC	Bottreau	JPR	19	(1958)	552
		-	Sol	Freq , FC	Rao	JPC	63	(1959)	1311
$C_7H_{14}O$	Di-isopropyl ketone	2-15μ	-	Spec, Ident	Sharp	JACS	73	(1951)	5600
		1600-1800	Sol	Band freq	Fuson	JACS	76	(1954)	2526
		-	G,L, Sol	Solvent effect	Bayliss	AJC	8	(1955)	26
		-	-	Anal,	Wheeler	AC	29	(1957)	538
		-	Sol	Freq , FC	Rao	JPC	63	(1959)	1311
$C_7H_{14}O$	1-Ethylcyclopentanol	8.35-12.05μ	L	Table, Anal, I	Smith	JACS	76	(1954)	4564
$C_7H_{14}O$	n-Heptaldehyde	1800-1650	Sol	Ext coeff	Cross	TFS	47	(1951)	354
		2700-3000	Sol	Spec, Stretch freq	Pozefsky	AC	23	(1951)	1611
		-	Sol	Group & Band freq	Pinchas	AC	27	(1955)	2
$C_7H_{14}O$	3-Heptanone	1600-1800	Sol	Band freq	Fuson	JACS	76	(1954)	2526
		-	-	Band freq	Pinkard	JACS	76	(1954)	5169
$C_7H_{14}O$	trans-3-n-Heptenol	-	-	Bending freq	Crombie	JCS	-	(1955)	1007
$C_7H_{14}O$	trans-4-n-Heptenol-1	8-12μ	L	Spec, Struct	Crombie	JCS	-	(1950)	1707
$C_7H_{14}O$	trans-Hex-3-en-1-yl methyl ether	-	-	Group study	Henbest	JCS	-	(1957)	1462
$C_7H_{14}O$	Isobutyl cyclopropyl ether	3-14μ	L	Spec	Bridson	JCS	-	(1951)	2999
$C_7H_{14}O$	Methoxycyclohexane	-	-	Group study	Henbest	JCS	-	(1957)	1462
$C_7H_{14}O$	Methoxy-2-methylpentene-2	700-1700	L	Spec, Ext coeff, Iso	Bateman	JCS	-	(1950)	3045
$C_7H_{14}O$	Methyl amyl ketone	7-2.5μ	L	Band study	Ellis	JACS	51	(1929)	1384
		500-1750	L	Assign	Thompson	JCS	-	(1945)	640

		-	G	Band freq	Hartwell	JCS	-	(1948)	1436
		2800-3000	Sol	Spec, Stretch freq	Pozefsky	AC	23	(1951)	1611
		1600-1800	Sol	Band freq	Fuson	JACS	76	(1954)	2526
		-	-	Band freq, Ident	Williams	JACS	76	(1954)	3495
$C_7H_{14}O$	1-Methylcyclohexanol	2-16 μ	L	Spec, Ident	Smith	JACS	74	(1952)	6135
		665-5000	L	Band freq	Zeiss	JACS	75	(1953)	897
$C_7H_{14}O$	2-Methylcyclohexanol	400-4000	Sol	Spec, Ext coeff, Band study	Cummins	JCS	-	(1957)	3847
$C_7H_{14}O$	cis-2-Methylcyclohexanol	1300-3650	Sol	Ident, Struct	Cole	JCS	-	(1959)	1222
$C_7H_{14}O$	trans-2-Methylcyclohexanol	8.35-12.05 μ	L	Table, Anal, I	Smith	JACS	76	(1954)	4564
		1300-3650	Sol	Struct	Cole	JCS	-	(1959)	1222
$C_7H_{14}O$	cis-3-Methylcyclohexanol	-	-	Ident	Noyce	JACS	74	(1952)	5912
		1300-3650	Sol	I, Struct	Cole	JCS	-	(1959)	1222
$C_7H_{14}O$	trans-3-Methylcyclohexanol	-	-	Ident	Noyce	JACS	74	(1952)	5912
		1300-3650	Sol	I, Struct	Cole	JCS	-	(1959)	1222
$C_7H_{14}O$	4-Methylcyclohexanol	1050-1750	-	Spec	Barnes	IEC	15	(1943)	659
$C_7H_{14}O$	cis-4-Methylcyclohexanol	1300-3650	Sol	Struct	Cole	JCS	-	(1959)	1222
$C_7H_{14}O$	trans-4-Methylcyclohexanol	1300-3650	Sol	Struct	Cole	JCS	-	(1959)	1222
$C_7H_{14}O$	Methylcyclopropylcarbinylethyl ether	-	-	Ident	Pearson	JACS	75	(1953)	1065
$C_7H_{14}O$	Methylethylcyclopropylcarbinol	-	L,Sol	Band freq	Slabey	JACS	76	(1954)	3604
		1-2.7 μ	Sol	Struct	Washburn	JACS	80	(1958)	504

$C_7H_{14}O$	Methyl neopentyl ketone	-	-	Reference	Zook	JACS	77	(1955)	2501
$C_7H_{14}O$	2,4-Dimethyl-3-pentanone -3-C^{13}(isotopic)	800-5000	Sol	Freq, Assign	Karabatasos	JOC	25	(1960)	315
$C_7H_{14}O^{18}$	2,4-Dimethyl-3-pentanone -O^{18}(isotopic)	800-5000	Sol	Freq, Assign	Karabatasos	JOC	25	(1960)	315
$C_7H_{14}OS$	Butylthio propionate	2.5-16 μ	Sol	Struct, Freq	Nyquist	SA	15	(1959)	514
$C_7H_{14}OS$	Cyclohexyl methyl sulfoxide	970-1100	Sol	Spec, Table, H bond	Barnard	JCS	-	(1949)	2442
		7-10 μ	Sol	Assign	Haszeldine	JCS	-	(1955)	2901
$C_7H_{14}OS$	Formyl hexyl sulphide	25-16 μ	Sol	Chemical struct	Nyquist	SA	15	(1959)	514
$C_7H_{14}O_2$	Butyl glycidyl ether	2-15 μ	L,Sol	Spec, Group freq	Patterson	AC	26	(1954)	823
$C_7H_{14}O_2$	Isobutyl propionate	500-1750	L	Assign	Thompson	JCS	-	(1945)	640
		-	G	Band freq	Hartwell	JCS	-	(1948)	1436
		-	Sol	Band freq	Russell	JCS	-	(1955)	479
		800-1500	Sol	Band characteristic, Assign	Katritzky	SA	16	(1960)	954
		-	-	Band characteristic, Assign	Katritzky	SA	16	(1960)	964
$C_7H_{12}O_2$	n-Butyl propionate	500-1750	L	Assign	Thompson	JCS	-	(1945)	640
		-	G	Band freq	Hartwell	JCS	-	(1948)	1436
		720-750	L	Band freq	Wiberly	AC	22	(1950)	841
		-	Sol	Band freq	Russell	JCS	-	(1955)	479
		2-15 μ	Sol	Assign, Generalization	Walton	JACS	79	(1957)	3985
$C_7H_{14}O_2$	t-Butyl propionate	665-5000	L	Freq	Ory	AC	32	(1960)	509
$C_7H_{14}O_2$	cis-Cycloheptane-1,2-diol	-	Sol	Band freq	Kuhn	JACS	76	(1954)	4323
		3500-3600	Sol	H bond	Brimacombe	TE	4	(1958)	351
$C_7H_{14}O_2$	trans-Cycloheptane-1,2-diol	-	Sol	Band freq	Kuhn	JACS	76	(1954)	4323
		3500-3600	Sol	H bond	Brimacombe	TE	4	(1958)	351

$C_7H_{14}O_2$	3,3-Diethoxyprop-1-ene	-	Sol	Band freq, Absorbance	Davison	JCS	-	(1953)	2607
$C_7H_{14}O_2$	Ethyl isovalerate	500-1750	L	Assign	Thompson	JCS	-	(1945)	640
		-	G	Band freq	Hartwell	JCS	-	(1948)	1436
$C_7H_{14}O_2$	n-Heptanoic acid	-	-	Ident	Cairns	JACS	74	(1952)	5636
		6.78-13.70μ	L	Band freq, I, Spec	Fowler	JOSA	43	(1953)	1054
		3500-670	L,S	Spec	Corish	JCS	-	(1957)	1746
$C_7H_{14}O_2$	cis and trans-4-Methoxy-cyclohexanol	-	-	Group study	Henbest	JCS	-	(1957)	1462
$C_7H_{14}O_2$	Methyl caproate	-	G	Band freq	Hartwell	JCS	-	(1948)	1436
		1-12μ	Sol	Spec, Table, Ext coeff	O'Connor	JAOC	28	(1951)	154
		6.84-13.61μ	L	Table, Band freq, I	Fowler	JOSA	43	(1953)	1054
$C_7H_{14}O_2$	2-Methylhexanoic acid	6.5-8.5μ	L	Ident	Guertin	AC	28	(1956)	1194
$C_7H_{14}O_2$	3-Methylhexanoic acid	6.5-8.5μ	L	Ident	Guertin	AC	28	(1956)	1194
$C_7H_{14}O_2$	4-Methylhexanoic acid	6.5-8.5μ	L	Ident	Guertin	AC	28	(1956)	1194
$C_7H_{14}O_2$	5-Methylhexanoic acid	6.5-8.5μ	L	Ident	Guertin	AC	28	(1956)	1194
$C_7H_{14}O_2$	1-Pentanol-5-vinyl ether	-	-	Ident	Adelman	JACS	75	(1953)	2678
$C_7H_{14}O_2$	Pentyl acetate	1-2.5μ	-	Spec	Smith	JACS	48	(1926)	1512
		1800-1650	Sol	Ext coeff	Cartwright	PRS	154	(1936)	138
		-	-	Solvent effect	Gordy	JCP	7	(1939)	93
		-	-	Solvent effect	Gordy	JCP	7	(1939)	163
		720-750	L	Band freq	Wiberly	AC	22	(1950)	841
		1800-1650	Sol	Ext coeff	Cross	TFS	47	(1951)	354
		-	Sol	I	Russell	JCS	-	(1955)	479
$C_7H_{14}O_2$	Isopentyl acetate	-	G	Band freq	Hartwell	JCS	-	(1948)	1436
		-	Sol	Band freq	Hampton	AC	21	(1949)	914
		-	-	Ident	Blomquist	JACS	77	(1955)	78
$C_7H_{14}O_2$	2-Pentyl acetate	2-10μ	-	Spec, Anal	Brown	JACS	74	(1952)	4414

$C_7H_{14}O_2$	2-Pentyl acetate	2-15 μ	-	Spec, Anal	Brown	JACS	77	(1955)	3614
$C_7H_{14}O_2$	3-Pentyl acetate	2-15 μ	-	Spec, Anal	Brown	JACS	77	(1955)	3614
$C_7H_{14}O_2$	Isopropyl isobutyrate	500-1700	L	Assign	Thompson	JCS	-	(1945)	640
		-	G	Band freq	Hartwell	JCS	-	(1948)	1436
$C_7H_{14}O_2$	Isopropyl n-butyrate	500-1750	L	Assign	Thompson	JCS	-	(1945)	640
		-	G	Band freq	Hartwell	JCS	-	(1948)	1436
		-	L	Band freq	Edwards	JCS	-	(1953)	3427
		800-1500	Sol	Band characteristics, Assign	Katritzky	SA	16	(1960)	954
		-	-	Band characteristics, Assign	Katritzky	SA	16	(1960)	964
$C_7H_{14}O_2$	n-Propyl isobutyrate	500-1750	L	Assign	Thompson	JCS	-	(1945)	640
		-	G	Band freq	Hartwell	JCS	-	(1948)	1436
$C_7H_{14}O_2$	n-Propyl n-butyrate	1800-1650	Sol	Ext coeff	Cross	TFS	47	(1951)	354
		2800-3000	Sol	Spec, Stretch freq	Pozefsky	AC	23	(1951)	1611
		-	L	Band freq	Edwards	JCS	-	(1953)	3427
		600-4000	L	Spec, Assign	LeFevre	AJC	11	(1958)	92
		800-1500	S	Band characteristics, Assign	Katritzky	SA	16	(1960)	954
		-	-	Band characteristics, Assign	Katritzky	SA	16	(1960)	964
$C_7H_{14}O_2S$	Cyclohexyl methyl sulfone	1100-1350	Sol	Spec, H bond, Table, Freq	Barnard	JCS	-	(1949)	2442
$C_7H_{14}O_2S$	1-(Tetrahydrothiapyran)-4-ethane-1,2-diol	-	S	Band freq	Cockburn	JACS	76	(1954)	5703
$C_7H_{14}O_3$	n-Butyl lactate	720-750	L	Band freq	Wiberly	AC	22	(1950)	841
$C_7H_{14}O_3$	2-(2,4-Dimethylpentanone-3-yl)hydroperoxide	2-15 μ	-	Spec, Ident	Sharp	JACS	73	(1951)	5600

$C_7H_{14}O_3$	Dipropyl carbonate	1-12 μ	L	Spec, Group anal	Bell	JACS	50	(1928)	2940
		-	-	Band freq, Absorption coeff	Bonino	TFS	25	(1929)	876
$C_7H_{14}O_3$	Ethyl β-ethoxypropionate	800-2000	-	Spec	Barnes	IEC	15	(1943)	659
$C_7H_{14}O_3$	2-Isopropyl-1,3-dioxan-5-ol	3500-3700	Sol	H bond, Struct	Barker	TE	7	(1959)	10
$C_7H_{14}O_3$	4-Methoxymethyl-2,2-dimethyl-1,3-dioxolan	400-3100	G	Freq, Assign	Barker	JCS	-	(1959)	802
$C_7H_{14}O_3S$	2-(4-Methoxy-2-thiabutyl)-1,3-dioxolane	-	-	Band freq	Smith	JOC	-	(1951)	16
$C_7H_{14}O_4$	Methoxymethoxyethyl glycidyl ether	2-15 μ	S,Sol	Spec, Group freq	Patterson	AC	26	(1954)	823
$C_7H_{14}O_5$	Methyl 2-deoxy-α,D-galactopyranoside	-	S	Group & Band freq, I	Barker	JCS	-	(1954)	4211
$C_7H_{14}O_5$	Methyl 2-deoxy-α,D-glucopyranoside	-	S	Group & Band freq, I	Barker	JCS	-	(1954)	4211
		700-1000	S	Group & Band freq, I	Barker	JCS	-	(1954)	4550
$C_7H_{14}O_5$	Methyl 3-deoxy-α,D-mannopyranoside	-	S	Group & Band freq, I	Barker	JCS	-	(1954)	4211
$C_7H_{14}O_5$	Methyl 6-deoxy-α,L-mannopyranoside	-	S	Band freq, I	Barker	JCS	-	(1954)	3468
$C_7H_{14}O_5$	Methyl-α,D-Fucose	-	S	Anal, Band freq, I	Whistler	AC	25	(1953)	1463
$C_7H_{14}O_5$	Methyl-β,D-fucose	-	S	Anal, Band freq, I	Whistler	AC	25	(1953)	1463
$C_7H_{14}O_6$	Isomytilitol	-	S	Group and Band freq	Barker	JCS	-	(1954)	4211
$C_7H_{14}O_6$	Methyl α,D-altroside	-	S	Anal, Band freq, I	Whistler	AC	25	(1953)	1463

$C_7H_{14}O_6$	Methyl β,D-altroside	-	S	Anal, Band freq, I	Whistler	AC	25	(1953)	1463
$C_7H_{14}O_6$	Methyl α,D-galactoside	8-15μ	S	Spec	Kuhn	AC	22	(1950)	276
		-	S	Anal, Band freq, I	Whistler	AC	25	(1953)	1463
		-	S	Band freq, I	Barker	JCS	-	(1954)	3468
		-	S	Group & Band freq, I	Barker	JCS	-	(1954)	4211
		700-1000	S	Group & Band freq, I	Barker	JCS	-	(1954)	4550
$C_7H_{14}O_6$	Methyl β,D-galactoside	8-15μ	S	Spec	Kuhn	AC	22	(1950)	276
		-	S	Anal, Band freq, I	Whistler	AC	25	(1953)	1463
		-	S	Band freq, I	Barker	JCS	-	(1954)	3468
		-	S	Group & Band freq, I	Barker	JCS	-	(1954)	4211
		700-1000	S	Group & Band freq, I	Barker	JCS	-	(1954)	4550
$C_7H_{14}O_6$	2-O-Methyl-β,D-gluco-pyranose	-	S	Group & Band freq, I	Barker	JCS	-	(1954)	171
$C_7H_{14}O_6$	3-O-Methyl- α,D-gluco-pyranose	-	S	Group & Band freq, I	Barker	JCS	-	(1954)	171
$C_7H_{14}O_6$	6-O-Methyl- α,D-gluco-pyranose	-	S	Group & Band freq, I	Barker	JCS	-	(1954)	171
$C_7H_{14}O_6$	Methyl α,D-glucoside	8-15μ	S	Spec	Kuhn	AC	22	(1950)	276
		-	S	Anal, Band freq, I	Whistler	AC	25	(1953)	1463
		-	S	Band freq, I	Barker	JCS	-	(1954)	171
		-	S	Group & Band freq, I	Barker	JCS	-	(1954)	3468
		-	S	Group & Band freq, I	Barker	JCS	-	(1954)	4211
		700-1000	S	Group & Band freq, I	Barker	JCS	-	(1954)	4550
		800-3000	S	Stretch & Bending freq	Barker	N	186	(1960)	307
$C_7H_{14}O_6$	Methyl β,D-gluco-pyranoside	8-15μ	Sol	Spec	Kuhn	AC	22	(1950)	276
		-	S	Anal, Band freq, I	Whistler	AC	25	(1953)	1463
		-	S	Group & Band freq, I	Barker	JCS	-	(1954)	171
		-	S	Band freq, I	Barker	JCS	-	(1954)	3468
		800-3000	S	Stretch & Bending freq	Barker	N	186	(1960)	307

$C_7H_{14}O_6$	3-Methyl-D-glucose	8-15 μ	S	Spec	Kuhn	AC	22 (1950) 276
$C_7H_{14}O_6$	Methyl α,D-mannofurano-side	700-1000	S	Group & Band freq, I	Barker	JCS	- (1954) 4550
$C_7H_{14}O_6$	Methyl α,D-manno-pyranoside	8-15 μ	S	Spec	Kuhn	AC	22 (1950) 276
		-	S	Anal, Band freq, I	Whistler	AC	25 (1953) 1463
		-	S	Band freq, I	Barker	JCS	- (1954) 3468
		-	S	Group & Band freq, I	Barker	JCS	- (1954) 4211
		700-1000	S	Group & Band freq, I	Barker	JCS	- (1954) 4550
$C_7H_{14}O_6$	Methyl β,D-manno-pyranoside	-	S	Band freq, I	Barker	JCS	- (1954) 3468
		700-1000	S	Group freq, I	Barker	JCS	- (1954) 4550
$C_7H_{14}O_6$	Methyl α,L-manno-pyranoside	-	S	Band freq, I	Barker	JCS	- (1954) 3468
$C_7H_{14}O_6$	Mytilitol	-	S	Group & Band freq	Barker	JCS	- (1954) 4211
$C_7H_{14}O_7$	Hydroxymytilitol	-	S	Group & Band freq	Barker	JCS	- (1954) 4211
$C_7H_{14}O_7$	Hydroxy-isomytilitol	-	S	Group & Band freq	Barker	JCS	- (1954) 4211
$C_7H_{14}S$	1-Methylcyclohexane-1-thiol	-	-	Ident	Moore	JCS	- (1954) 2089
$C_7H_{14}S$	2-Methylcyclohexane-1-thiol	-	-	Ident	Moore	JCS	- (1954) 2089
$C_7H_{14}S_2$	1,3-Bis-Ethylmercapto-propene-1	-	-	Struct	Parham	JACS	77 (1955) 1169
$C_7H_{14}S_2$	t-Butyldithiopropionate	897-2955	L	Freq, Table	Marvel	JACS	77 (1955) 5997
$C_7H_{15}DO$	2,4-Dimethyl-n-pentanol -3-d_1	800-4000	Sol	Spec, Freq	Karabotsos	JOC	25 (1960) 1409
$C_7H_{15}DO$	2,4-Dimethyl-3-pentanol	800-4000	Sol	Spec, Freq	Karabotsos	JOC	25 (1960) 1409

$C_7H_{15}D_2N$	2,4-Dimethyl-3-pentylamine-N,N-d_2	800-1700	Sol	Spec, Freq	Karabotsos	JOC	25	(1960) 1409
$C_7H_{15}Br$	1-Bromoheptane	2-15μ	L	Spec	Wotiz	JACS	71	(1949) 3441
		500-1500	L,S	Spec, Rotational, Iso	Brown	TFS	50	(1954) 535
		-	L	Mole ratio	Yoshino	CJC	35	(1957) 339
$C_7H_{15}Cl$	1-Chloro-3,3-dimethylpentane	-	-	Absorption freq, Quant anal	Schmerling	JACS	71	(1949) 753
$C_7H_{15}Cl$	2-Chloro-2,3-dimethylpentane	-	-	Ident, Anal	Schmerling	JACS	75	(1953) 6217
$C_7H_{15}Cl$	3-Chloro-2,3-dimethylpentane	-	-	Ident, Anal	Schmerling	JACS	75	(1953) 6217
$C_7H_{15}Cl$	n-Heptyl chloride	16-25μ	L	Solvent effect	Marrison	JSI	29	(1952) 233
$C_7H_{15}ClO_2S$	n-Heptanesulfonyl chloride	-	-	Spec, Assign	Geiseler	ZE	63	(1959) 1140
$C_7H_{15}Cl_3OSi$	Trichlorosilylhexyl methyl ether	-	-	Inductive effect	Josien	CPR	249	(1959) 826
$C_7H_{15}Cl_3OSi$	Trichlorosilylpentyl ethyl ether	-	-	Inductive effect	Josien	CPR	249	(1959) 826
$C_7H_{15}Cl_3OSi$	Trichlorosilylpropyl ethyl ether	-	-	Inductive effect	Josien	CPR	249	(1959) 826
$C_7H_{15}N$	Cyclohexylmethylamine	3.38-3.60μ	S	Freq	Wright	JOC	24	(1959) 1362
$C_7H_{15}N$	2,6-Dimethylpiperidine	2-15μ	-	Band study	Overberger	JACS	77	(1955) 4100
$C_7H_{15}N$	Di-n-propylketimine	-	-	Band study	Pickard	JACS	76	(1954) 5169
$C_7H_{15}N$	Ethyl-n-butylketimine	-	-	Band study	Pickard	JACS	76	(1954) 5169

$C_7H_{15}N$	N-Ethylpiperidine	2-8 μ	Sol	Spec	Nakanishi	BCSJ	30 (1957)	403
		2900-3100	Sol	Freq	Hill	JCS	- (1958)	760
		3.38-3.60 μ	S	Freq	Wright	JOC	24 (1959)	1362
$C_7H_{15}N.HI$	N-Ethylpiperidine hydriodide	2-8 μ	-	Spec	Nakanishi	BCSJ	30 (1957)	403
$C_7H_{15}NO$	cis-2-Aminocycloheptanol	-	Sol	Freq, Assign, Shift	Sicher	CCCC	24 (1959)	950
$C_7H_{15}NO$	trans-2-Aminocyclo-heptanol	-	Sol	Freq, Assign, Shift	Sicher	CCCC	24 (1959)	950
$C_7H_{15}NO$	N-Butylpropionamide	1200-1800	Sol	Band Assign, Freq, Assign	Hecht	PRS	235 (1956)	174
		600-3400	L,Sol	Spec, Freq assign	Beer	JCP	29 (1958)	1097
$C_7H_{15}NO$	α-Diethylaminoacetone	3.38-3.60 μ	S	Freq	Wright	JOC	24 (1959)	1362
$C_7H_{15}NO$	2,4-Dimethyl-3-pentanone oxime	800-4000	Sol	Spec, Freq	Karabotsos	JOC	25 (1960)	1409
$C_7H_{15}NO$	2,4-Dimethyl-3-pentanone -3-C^{13}-oxime	800-4000	Sol	Spec, Freq	Karabotsos	JOC	25 (1960)	1409
$C_7H_{15}NO$	N,N-Diisopropyl-formamide	-	L	I	Robson	JACS	77 (1955)	498
$C_7H_{15}NO$	N,N-Di-n-propylformamide	-	L	I	Robson	JACS	77 (1955)	498
$C_7H_{15}NO$	n-Heptaldehyde oxime	3 μ	Sol	H bond, Freq	Flett	SA	10 (1958)	21
$C_7H_{15}NO$	n-Heptamide	-	-	Ident	Horning	JACS	74 (1952)	5151
$C_7H_{15}NO$	1-(2-Hydroxyethyl)-piperidine	3.38-3.60 μ	S	Freq	Wright	JOC	24 (1959)	1362
$C_7H_{15}NO$	N-(2-Hydroxyethyl)-piperidine	3 μ	Sol	H bond, Freq	Flett	SA	10 (1958)	21

$C_7H_{15}NO$	N-1-Methylbutylidine-ethanolamine	2-15 μ	-	Spec, Struct	Daasch	JACS	73 (1951)	4523
$C_7H_{15}NO$	2-Methyl-2-n-propyl-oxazolidine	-	Sol	Group freq, Ext coeff	Bergmann	JACS	75 (1953)	358
$C_7H_{15}NO_2$	N,N-Diethyl-β-amino-propionic acid	-	Sol	H bond freq	Barrow	JACS	80 (1958)	86
$C_7H_{15}NO_2$	Ethyl N-n-butyl-carbamate	-	-	Band study	Robson	JACS	77 (1955)	2453
$C_7H_{15}NO_3$	n-Heptyl nitrate	2-15 μ	Sol	Spec, Struct, Ext coeff	Carrington	SA	16 (1960)	1279
$C_7H_{15}NO_3$	1-Propylbutyl nitrate	2-15 μ	Sol	Spec, Struct, Ext coeff	Carrington	SA	16 (1960)	1279
$C_7H_{15}NO_3 \cdot HCl$	DL-Carnitine hydro-chloride	1350-1550	S	Spec, Ident	Satson	SA	16 (1960)	1322
$C_7H_{15}NO_5 \cdot HCl$	2-Amino-2-deoxy-3-O-methyl α,D-glucopyra-nosehydrochloride	-	S	Group & Band freq, I	Barker	JCS	- (1954)	171
$C_7H_{15}N_2O_5SP$	S-Acetylurea-O,O-diethyl-thiophosphate	-	-	Struct	Hoegberg	JACS	73 (1951)	557
$C_7H_{15}N_3O$	t-Butyl methyl ketone semicarbazone	700-3500	S	Spec, Assign, Ident	Davison	JCS	- (1955)	3389
$C_7H_{15}N_3O$	Isobutyl methyl ketone semicarbazone	700-1800	S	Assign, Ident	Davison	JCS	- (1955)	3389
$C_7H_{15}O_3P$	Diethylallylphosphate	600-3000	L	Spec, Assign	Gillis	JACS	80 (1958)	2999
$C_7H_{15}O_3S$	n-Heptane-1-sulfonate	500-4000	S	Band freq	Fujimori	BCSJ	32 (1959)	850

$C_7H_{15}O_3B$	Ethylene-n-pentyl borate	6-14 μ	L,S	Assign, Struct	Blau	JCS	-	(1960)	380
C_7H_{16}	2,2-Dimethylpentane	1.1-1.8 μ	L	Spec	Bruun	JRNB	9	(1932)	53
		1.1-1.8 μ	L	Spec	Liddel	JRNB	11	(1933)	599
		-	-	Thermo	Pitzer	CR	27	(1940)	39
		1100-1800	-	Spec	Barnes	IEC	15	(1943)	659
		-	L	Anal	Glasgow	JRNB	38	(1947)	537
		-	-	Anal	Heigl	IEC	19	(1947)	243
		-	-	Anal	Kent	AC	19	(1947)	290
		-	-	Freq	Sutherland	JCP	15	(1947)	3
		-	-	IR, Assign	Sheppard	JCP	16	(1948)	690
		-	-	Skeletal freq	Simpson	PRS	199	(1949)	169
		-	G	Anal	Bell	AC	22	(1950)	1005
		-	-	Group anal & absorption	Hastings	AC	24	(1952)	612
		-	-	Ident, Anal	Schmerling	JACS	75	(1953)	6217
C_7H_{16}	2,3-Dimethylpentane	1.1-1.8 μ	L	Spec	Liddel	JRNB	11	(1933)	599
		-	-	Thermo	Pitzer	CR	27	(1940)	39
		-	-	Anal	Sweeney	IEC	16	(1944)	723
		-	L	Anal	Glasgow	JRNB	38	(1947)	537
		-	-	Anal	Heigl	IEC	18	(1947)	293
		-	-	Anal	Kent	AC	19	(1947)	290
		-	-	Anal	Anderson	AC	20	(1948)	801
		2-15 μ	G	Spec, Struct anal	Derfer	JACS	71	(1949)	175
		-	G	Anal	Bell	AC	22	(1950)	1005
		2900-1370	L	Absorption I	Francis	JCP	18	(1950)	861
		-	-	Anal, Absorption coeff	Schneider	JACS	73	(1951)	5013
		-	-	Group anal & absorbance	Hastings	AC	24	(1952)	612
		7910-8810	L	Spec, I	Lauer	APS	6	(1952)	29
		-	-	Anal	Schmerling	JACS	75	(1953)	4275
		-	-	Ident, Anal	Schmerling	JACS	75	(1953)	6217
		-	L	Anal	Maury	JACS	76	(1954)	5831
		-	-	Anal	Pines	JACS	76	(1954)	2740
		15-35 μ	S	Spec, Struct	Bentley	SA	15	(1959)	165

C_7H_{16}	2,4-Dimethylpentane	1.1-1.8 μ	L	Spec	Liddel	JRNB	11	(1933)	599
		-	-	Thermo	Pitzer	CR	27	(1940)	39
		-	L	Anal	Glasgow	JRNB	38	(1947)	537
		-	-	Anal	Heigl	IEC	19	(1947)	293
		-	-	Anal	Kent	AC	19	(1947)	290
		-	G	Anal	Bell	AC	22	(1950)	1005
		2900-1370	L	Absorption I	Francis	JCP	18	(1950)	861
		-	-	Anal, Absorption coeff	Schneider	JACS	73	(1951)	5013
		-	-	Group anal & absorbance	Hastings	AC	24	(1952)	612
		7910-8810	L	Spec, Group freq, I	Lauer	APS	6	(1952)	29
		-	-	Anal	Schmerling	JACS	75	(1953)	4275
		-	-	Ident, Anal	Schmerling	JACS	75	(1953)	6217
		700-350	L	Table, Freq	Donnaud	CPR	239	(1954)	1480
		-	L	Anal	Maury	JACS	76	(1954)	5831
		800-1200	Sol	Spec, Freq	Karabotsos	JOC	25	(1960)	1409
C_7H_{16}	3,3-Dimethylpentane	1.1-1.8 μ	L	Spec	Liddel	JRNB	11	(1933)	599
		-	-	Thermo	Pitzer	CR	27	(1940)	39
		-	-	Anal	Kent	AC	19	(1947)	290
		-	-	IR, Assign	Sheppard	JCP	16	(1948)	690
		-	G	Anal	Bell	AC	22	(1950)	1005
		2900-1460	L	Absorption I	Francis	JCP	18	(1950)	861
		-	-	Group anal & absorbance	Hastings	AC	24	(1952)	612
C_7H_{16}	3-Ethylpentane	1.1-1.8 μ	L	Spec	Liddel	JRNB	11	(1933)	599
		-	-	Thermo	Pitzer	CR	27	(1940)	39
		-	-	Anal	Kent	AC	19	(1947)	290
		-	-	IR, Assign	Sheppard	JCP	16	(1948)	690
		-	L	Anal	Anderson	AC	21	(1949)	911
		-	G	Anal	Bell	AC	22	(1950)	1005
		2900-1370	L	Absorption I	Francis	JCP	18	(1950)	861
		-	-	Group anal	Hastings	AC	24	(1952)	612
		7910-8810	L	Spec, Group freq, I	Lauer	APS	6	(1952)	29

C_7H_{16}	n-Heptane	8-2.0μ	L	Magnetic Rotation	Ingersoll	JOSA	6	(1922)	663
		-	L	Harmonic Freq ratio	Ellis	JOSA	8	(1924)	1
		0-2.5μ	L	Spec	Ellis	PR	23	(1924)	48
		589-2.5μ	L	Band absorption, Spec	Ellis	PR	27	(1926)	298
		-	-	Band freq	Bonino	TFS	25	(1929)	876
		-	L	Spectrum	Lecomte	TFS	25	(1929)	864
		-	-	Thermo	Pitzer	CR	27	(1940)	39
		1.1-1.9μ	L	Spec	Hicks	JRNB	8	(1932)	525
		1.1-1.8μ	Sol	Spec	Liddel	JRNB	11	(1933)	599
		-	-	Freq	Kirkwood	JCP	7	(1937)	506
		-	-	Thermo	Pitzer	CR	27	(1940)	39
		1100-1800	-	Spec	Barnes	IEC	15	(1943)	659
		-	-	Thermo	Aston	JCP	12	(1944)	336
		-	-	Freq	Kellner	TFS	41	(1945)	217
		6.5-14μ	L	Spec	Thompson	PRS	184	(1945)	3
		-	-	Anal	Kent	AC	19	(1947)	290
		3.2-3.6μ	-	Spec, Anal	Saier	AC	20	(1948)	812
		-	-	IR, Assign	Sheppard	JCP	16	(1948)	690
		-	L	Anal	Anderson	AC	21	(1949)	911
		-	-	IR, Vib anal	Gates	JCP	17	(1949)	393
		8000-9000	Sol	Spec, Group anal	Hibbord	AC	21	(1949)	486
		-	-	Vib freq	Mizushima	JACS	71	(1949)	1320
		-	-	Band width	Rank	JCP	17	(1949)	1339
		-	-	Assign, Thermo	Sheppard	JCP	17	(1949)	86
		-	-	Selection rule	Simanouti	JCP	17	(1949)	1102
		11650-650	L,Sol	Rotational Iso	Axford	JCP	18	(1950)	51
		-	G	Anal	Bell	AC	22	(1950)	1005
		-	G	Anal	Coggeshall	AC	22	(1950)	381
		3.4μ	Sol	Anal	Simard	AC	23	(1951)	1384
		-	L	Spec	Wotiz	JACS	73	(1951)	693
		-	-	Group anal & absorption	Hastings	AC	24	(1952)	612
		15-25μ	L	Solvent effect	Marrison	JSI	29	(1952)	233
		-	G,S	Thermo, Group Assign	Person	JACS	75	(1953)	532
		700-350	L	Table, Freq	Domneaud	CPR	239	(1954)	1480
		-	-	Anal	Pines	JACS	71	(1954)	2740

		1450-650	S	Freq, Assign	Tschamler	JCP	22	(1954)	1845
		-	-	Freq	Corish	JCS	-	(1955)	2431
		2928-2960	Sol	I, Temp effect	Liddel	JCP	25	(1956)	173
		1.0-2.8μ	L	Spec	Goddu	AC	29	(1957)	1790
		1-6μ	L	Refractive index, Table	Jaffe	JOSA	47	(1957)	782
		700-1300	Sol	Ext coeff, Struct	Jones	SA	9	(1957)	235
		-	-	Vib anal, Dipole moment	Theimer	JCP	27	(1957)	1041
		15-35μ	S	Spec, Struct	Bentley	SA	15	(1959)	165
C_7H_{16}	2-Methylhexane	1.1-1.8μ	Sol	Spec	Liddel	JRNB	11	(1933)	599
		-	-	Thermo	Pitzer	CR	27	(1940)	39
		-	L	Anal	Glasgow	JRNB	38	(1947)	537
		-	-	Anal	Heigl	IEC	19	(1947)	293
		-	-	Anal	Kent	AC	19	(1947)	290
		-	-	Freq	Sutherland	JCP	15	(1947)	153
		-	-	Anal	Anderson	AC	20	(1948)	801
		-	-	IR, Assign	Sheppard	JCP	16	(1948)	690
		-	L	Anal	Anderson	AC	21	(1949)	911
		-	-	Skeletal freq	Simpson	PRS	199	(1949)	169
		-	G	Anal	Bell	AC	22	(1950)	1005
		-	-	Anal, Absorption coeff	Schneider	JACS	73	(1951)	5013
		-	-	Group anal & absorption	Hastings	AC	24	(1952)	612
		-	-	Ident, Anal	Schmerling	JACS	75	(1953)	6217
		-	-	Anal	Maury	JACS	76	(1954)	5831
		2-12μ	Sol	Struct, Band freq	O'Connor	JACS	76	(1954)	2368
		-	-	Anal	Pines	JACS	76	(1954)	2740
C_7H_{16}	3-Methylhexane	1.1-1.8μ	L	Spec	Liddel	JRNB	11	(1933)	599
		-	-	Thermo	Pitzer	CR	27	(1940)	39
		-	L	Anal	Glasgow	JRNB	38	(1947)	537
		-	-	Anal	Heigl	IEC	19	(1947)	293
		-	-	Anal	Kent	AC	19	(1947)	290
		-	-	Anal	Anderson	AC	20	(1948)	801

		-	-	IR, Assign	Sheppard	JCP	16	(1948)	690
		-	L	Anal	Anderson	AC	21	(1949)	911
		8000-9000	Sol	Anal	Hibbard	AC	21	(1949)	486
		-	G	Anal	Bell	AC	22	(1950)	1005
		-	-	Anal, Absorption coeff	Schneider	JACS	73	(1951)	5013
		-	-	Group anal & absorption	Hastings	AC	24	(1952)	612
		-	-	Anal, Ident	Schmerling	JACS	75	(1953)	6217
		-	L	Anal	Maury	JACS	76	(1954)	5831
		-	-	Anal	Pines	JACS	76	(1954)	2740
C_7H_{16}	Trimethylbutane	1.1-1.8μ	L	Spec	Liddel	JRNB	11	(1933)	399
		2.6-3.8μ	Sol	Spec, Assign	Fox	PRS	175	(1940)	208
		-	-	Thermo	Pitzer	CR	27	(1940)	39
		-	L	Anal	Glasgow	JRNB	38	(1947)	537
		-	-	Anal	Heigl	IEC	19	(1947)	293
		-	-	Anal	Kent	AC	19	(1947)	290
		6.4-14.5μ	-	Spec, Ident	Ford	JACS	70	(1948)	3793
		2-15μ	G	Spec, Struct anal	Derfer	JACS	71	(1949)	175
		-	-	Freq, Struct anal	Fry	JOSA	39	(1949)	402
		-	G	Anal	Bell	AC	22	(1950)	1005
		2900-1370	L	Absorption I	Francis	JCP	18	(1950)	861
		-	-	Group anal & absorption	Hastings	AC	24	(1952)	612
		7910-8810	L	Spec, Group freq, I	Lauer	APS	6	(1952)	29
		-	-	Thermo, IR	Scott	JACS	75	(1953)	2006
		-	-	Group freq	Bartlett	JACS	77	(1955)	2806
$C_7H_{16}DN$	2,4-Dimethyl-3-pentylamine-3-d_1	800-1700	Sol	Spec, Freq	Karabotsos	JOC	25	(1960)	1409
$C_7H_{16}ClN$	Trimethyl-α-methylallylammonium chloride	-	Sol	Anal	Young	JACS	77	(1955)	3061
$C_7H_{16}ClN$	Trimethyl-cis-γ-methyl allylammonium chloride	-	Sol	Anal	Young	JACS	77	(1955)	3061

$C_7H_{16}ClN$	Trimethyl-trans-γ-methyl-allyl ammonium chloride	-	Sol	Anal	Young	JACS	77 (1955)	3061
$C_7H_{16}ClNO_2$	Acetylcholine chloride	2-9μ	Sol	Spec, Freq	Jencks	ABB	88 (1960)	193
$C_7H_{16}NO_4P$	Diethyl ethyl carbamoyl phosphonate	2-16μ	L,S	Group freq	Reetz	JACS	77 (1955)	3813
$C_7H_{16}N_2$	1-Amino-2,6-dimethyl-piperidine	2-15μ	-	Ident, Band freq	Overberger	JACS	77 (1955)	4097
		2-15μ	-	Band freq	Overberger	JACS	77 (1955)	4100
$C_7H_{16}N_2O$	Dimethyldiethylurea	-	Sol	Solvent effect	Beguin	HCA	42 (1959)	2262
$C_7H_{16}N_2O$	N-Isopropylglycine dimethylamide	3μ	L,Sol	Association	Waley	PRS	199 (1949)	499
$C_7H_{16}O$	2,4-Dimethylpentanol-3	665-5000	L	Band freq	Zeiss	JACS	75 (1953)	897
		800-4000	Sol	Spec, Freq	Karabotsos	JOC	25 (1960)	1409
$C_7H_{16}O$	4,4-Dimethylpentanol-2	-	-	Anal	Gasson	JCS	- (1954)	2170
$C_7H_{16}O$	n-Heptyl alcohol	-	-	Band freq, Absorption coeff	Bonino	TFS	25 (1929)	876
		9-4μ	L,Sol	Spec, H bond	Kinsey	JCP	5 (1937)	399
		2-15μ	L	Spec	Wotiz	JACS	71 (1949)	3441
		2800-3000	Sol	Stretch freq, Spec	Posefsky	AC	23 (1951)	1611
		-	L	Band freq	Mosher	AC	27 (1955)	517
		2.75-2.28μ	Sol	I, Temp dependence	Hughes	JCP	24 (1956)	489
		350-4000	L,Sol	Band study	Stuart	JCP	24 (1956)	559
		3570-3700	Sol	Freq, I	Flynn	AJC	12 (1959)	575
$C_7H_{16}O$	Heptanol-2	665-5000	L	Band freq	Zeiss	JACS	75 (1953)	897
		-	-	Ident	Williams	JACS	76 (1954)	3495
		-	L	Band freq	Mosher	AC	27 (1955)	517
		350-4000	L,Sol	Band study	Stuart	JCP	24 (1956)	559
$C_7H_{16}O$	Heptanol-3	665-5000	L	Band freq	Zeiss	JACS	75 (1953)	897

$C_7H_{16}O$	Heptanol-4	665-5000	L	Band freq	Zeiss	JACS	75	(1953)	897
		2.76 μ	Sol	I, Temp dependence	Hughes	JCP	24	(1956)	489
$C_7H_{16}O$	n-Hexyl methyl ether	3100-2800	Sol	Band study	Henbest	JCS	-	(1957)	1462
$C_7H_{16}O$	2-Methoxyhexane	-	-	Ident	Noyce	JACS	76	(1954)	3630
$C_7H_{16}O$	d-2-Methoxyhexane	-	-	Ident	Noyce	JACS	76	(1954)	3630
$C_7H_{16}O$	2-Methyl-2-hexanol	350-4000	L,Sol	Band freq	Stuart	JCP	24	(1956)	559
$C_7H_{16}O$	5-Methyl-1-hexanol	350-4000	L,Sol	Band freq	Stuart	JCP	24	(1956)	559
$C_7H_{16}O$	n-Propyl t-butyl ether	665-5000	L	Freq	Ory	AC	32	(1960)	509
$C_7H_{16}O$	Triethylmethanol	3300-3700	Sol	H bond	West	JACS	81	(1959)	6145
$C_7H_{16}O_2$	5-Ethoxypentanol-1	2.3-3.2 μ	Sol	H bond	Wall	JACS	61	(1939)	2679
$C_7H_{16}O_2$	n-Heptylhydroperoxide	5.5-14.5 μ	L	Spec, Group freq	Mosher	AC	27	(1955)	517
$C_7H_{16}O_2$	2-Heptyl hydroperoxide	-	-	Ident	Williams	JACS	76	(1954)	3495
		5.5-14.5 μ	L	Spec, Group freq	Mosher	AC	27	(1955)	517
$C_7H_{16}O_2$	Propylal	1500-3000	Sol	Group freq	Briggs	AC	29	(1957)	904
$C_7H_{16}O_3$	Ethyl orthoformate	1010-1195	Sol	Spec, Struct	Bergmann	JACS	73	(1951)	2352
		-	-	Spec, Freq	Nukada	NKZ	81	(1960)	1028
$C_7H_{16}O_6S_3$	Triethylsulfonyl-methane	1000-1500	Sol	Spec	Schreiber	AC	21	(1949)	1168
$C_7H_{16}S$	n-Heptyl mercaptan	2800-3000	Sol	Spec, Stretch freq	Pozefsky	AC	23	(1951)	1611
$C_7H_{16}S_2$	1,1-Bis-ethylmercapto-propane	2.5-15 μ	L	Spec	Cairns	JACS	74	(1952)	3982

$C_7H_{16}S_3$	Triethyltrithio ortho-formate	-	-	Ident	Cairns	JOC	18 (1953)	748
$C_7H_{16}Si$	Cyclopentamethylene dimethylsilane	2-35μ	L	Spec, Assign	Oshesky	JACS	79 (1957)	2057
$C_7H_{17}N$	2,4-Dimethyl-3-pentyl-amine-3-C^{13}	800-1700	Sol	Spec, Freq	Karabotsos	JOC	25 (1960)	1409
$C_7H_{17}N$	n-Heptylamine	1050-1750	-	Spec	Barnes	IEC	15 (1943)	659
		2-15μ	L,Sol	NCA, Freq, Assign	Stewart	JCP	30 (1959)	1259
$C_7H_{17}NO$	5-Amino-5-methylhexanol	-	L	Ident	Moffett	JOC	17 (1952)	407
$C_7H_{17}NO$	1-Diethylaminopropan-2-ol	3μ	Sol	Freq , H bond	Flett	SA	10 (1958)	21
$C_7H_{17}NO$	2-Diethylaminopropan-1-ol	3μ	Sol	Freq , H bond	Flett	SA	10 (1958)	21
$C_7H_{17}NO$	N-Methyl-N-n-butyl-2 aminoethanol	-	-	Band study	Gil	JACS	74 (1952)	1346
		-	-	Group freq, H bond	Bergmann	JACS	75 (1953)	68
$C_7H_{17}NOSi_2$	Cyanomethylpentamethyl-disiloxane	-	-	Band freq	Prober	JACS	77 (1955)	3224
$C_7H_{17}NS$	3-Diethylaminopropane-thiol	-	L,Sol	Band freq	Plant	JACS	77 (1955)	1572
$C_7H_{17}O_2PS$	Di-isopropylmethyl-phosphonothionate	600-900	S	Band assign	McIvor	CJC	37 (1959)	869
$C_7H_{17}O_3P$	Di-isopropylmethyl-phosphonate	2-25μ	L	Spec, Table, Struct	Meyrick	JCS	- (1950)	225
		-	-	Band shift	Bell	JACS	76 (1954)	5185
		-	-	Spec freq	Maarsen	RTC	76 (1957)	713
$C_7H_{17}O_5P$	Diethyl-dimethoxymethyl phosphite	-	-	Freq, Assign	Ketelaar	RTC	78 (1959)	190

$C_7H_{17}PS_4$	Di-isopropylmethyl-tetrathiophosphate	2-25 μ	-	Spec struct	Menefee	JOC	22	(1957)	792
$C_7H_{18}OSi$	Triethylmethoxysilane	-	-	Spec	Riskin	CCCC	24	(1959)	3816
$C_7H_{18}NO_2PS$	Di-isopropylmethylphosphoramidothionate	-	-	Spec freq	Popov	ZOK	29	(1959)	1998
$C_7H_{18}NO_2PS$	Di-n-propylmethylphosphoramidothionate	-	-	Spec, Freq	Popov	ZOK	29	(1959)	1998
$C_7H_{18}NO_3P$	Di-isopropylmethylphosphoramidoate	-	-	Spec, freq	Maarsen	RTC	76	(1957)	713
$C_7H_{18}OSi$	Trimethylsilylethyl ethyl ether	-	-	Inductive effect	Josien	CPR	249	(1959)	826
$C_7H_{18}OSi$	Trimethylsilylpropyl methyl ether	-	-	Inductive effect	Josien	CPR	249	(1959)	826
$C_7H_{18}O_3Si$	Methyltriethoxysilane	700-3000	L	Spec, Table, Group assign	Richards	JCS	-	(1949)	124
		600-3500	L	Spec	Okawara	BCSJ	31	(1958)	154
$C_7H_{19}NO_3Si$	Triethoxysilylmethylamine	-	-	Band study	Noll	JACS	73	(1951)	3871
$C_7H_{19}NSi$	N-(Trimethylsilylmethyl) isopropylamine	-	-	Band study	Noll	JACS	73	(1951)	3871
$C_7H_{20}Si$	Di-trimethylsilylmethane	-	-	Band, Study, Assign	Kriegsmann	ZE	61	(1957)	1088
$C_7H_{20}Si_2$	Hexamethyldisilylmethylene	24 μ	L,Sol	IR	Cerato	JCP	22	(1954)	1
$C_7H_{21}NSi_2$	Bis-trimethylsilyl methylamine	-	-	Spec, Assign	Goubean	ZAUA	303	(1960)	217

$C_7H_{22}O_2Si_3$	Heptamethyltrisiloxane	600-3500	L	Spec, Assign	Sakiyama	BCSJ	31	(1958)	67
$C_7H_{22}O_4Si_4$	Heptamethylcyclotetrasiloxane	600-3500	Sol	Spec, Assign	Sakiyama	BCSJ	31	(1958)	67
$C_7H_{24}O_3Si_4$	Heptamethyltetrasiloxane	600-3500	Sol	Spec, Assign	Sakiyama	BCSJ	31	(1958)	67
$C_7H_{24}O_3Si_4$	Heptamethyltrisiloxymethylsilane	600-3500	Sol	Spec, Assign	Sakiyama	BCSJ	31	(1958)	67
$C_7H_{26}O_4Si_5$	Heptamethylpentasiloxane	600-3500	Sol	Spec, Assign	Sakiyama	BCSJ	31	(1958)	67
$C_7H_{28}O_7Si_7$	Cycloheptamethylsiloxane	2050-2250	Sol	Freq , Struct	Smith	SA	15	(1959)	412
C_7D_5N	Benzonitrile-d_5	-	-	Spec, Assign	Bak	ZE	64	(1960)	560
C_7D_8	Toluene-d_8	2.5-15 μ	-	Assign	Kovner	OS	5	(1958)	134
		600-4800	G,L	Assign, I	Fuson	SA	16	(1960)	106
$C_7Cl_3F_{12}I$	1,3,5-Trichlorododecafluoro-1-iodoheptane	-	-	Ident	Haszeldine	JCS	-	(1953)	1592
C_7F_{14}	Tetradecafluorohept-1-ene	-	-	Band freq	Haszeldine	JCS	-	(1952)	4259
		-	-	Pyrolysis study	Lazerte	JACS	75	(1953)	4525
C_7H_{14}	Tetradecafluoromethylcyclohexane	500-1500	G	Spec, Assign	Thompson	JCS	-	(1948)	1432
$C_7F_{14}O$	Di-heptafluoropropyl ketone	-	-	Spec, Group freq	Henne	JACS	75	(1953)	992
C_7F_{16}	Hexadecafluoro-2,3-dimethylpentane	500-1500	G	Assign, Spec	Thompson	JCS	-	(1948)	1432

C_7F_{16}	Hexadecafluoroheptane	500-1500	G	Spec, Assign	Thompson	JCS	-	(1948)	1432
		9-13μ	G,L,S	Iso	Szasz	JCP	18	(1950)	1417
		1-39μ	G,L	Spec	Oliver	JACS	73	(1951)	5722
		-	-	Ident, Anal	Rotariu	JACS	74	(1952)	5783

C_8 COMPOUNDS

C_8H_2	Tetracetylene	-	-	FC, Bond length	Longuet	TFS	48	(1952)	1077
$C_8H_2F_{14}O_2$	2,2,3,3,4,4,4-Heptafluorobutyl heptafluorobutyrate	-	L	Band freq	Rappaport	JACS	75	(1953)	2695
$C_8H_3Cl_4F_3$	3,4-Dichloro-α,α-dichloro-β,β,β-trifluoroethylbenzene	3-15μ	L	Spec	Park	JACS	73	(1951)	709
$C_8H_3Cl_5S$	1-Pentachlorophenylmercaptoethylene	-	Sol	Group freq, Spec	Potts	SA	15	(1959)	679
$C_8H_3NO_5$	3-Nitrophthalic anhydride	1300-1500	-	Shift, Stretch freq	Jones	CIL	-	(1959)	880
$C_8H_4DNO_2$	p-Cyanobenzoic acid O-d_1	650-900	L,Sol	Bending freq	Yoshida	CPBT	8	(1960)	389
$C_8H_4D_6$	m-Xylene-$\alpha,\alpha,\alpha,\alpha',\alpha',\alpha'$-$d_6$	2-30μ	G,L	Spec, Vib assign	Wilmshurst	CJC	35	(1957)	911
$C_8H_4BrNO_2$	4-Bromoisatin	1300-3500	Sol	H bond, Struct	O'sullivan	JCS	-	(1957)	2202
$C_8H_4BrNO_2$	6-Bromoisatin	1300-1600	Sol	H bond, Struct, Freq	O'sullivan	JCS	-	(1957)	2202
$C_8H_4BrNO_2$	7-Bromoisatin	1300-3500	Sol	H bond, Struct, Freq	O'sullivan	JCS	-	(1957)	2202

$C_8H_4ClF_3O$	m-Chloro-ω, ω, ω-trifluoroacetophenone	3-15 μ	G,L	Spec	Park	JACS	73	(1951)	709
C_8H_4ClNO	p-Cyanobenzoylchloride	650-900	Sol,L	Bending freq	Yoshida	CBT	8	(1960)	389
$C_8H_4ClNO_2$	4-Chloroisatin	1300-3500	Sol	H bond, Struct, Freq	O'sullivan	JCS	-	(1957)	2202
$C_8H_4ClNO_2$	6-Chloroisatin	1300-3500	Sol	H bond, Struct, Freq	O'Sullivan	JCS	-	(1957)	2202
$C_8H_4ClNO_2$	7-Chloroisatin	1300-3500	Sol	H bond, Struct, Freq	O'Sullivan	JCS	-	(1957)	2202
$C_8H_4Cl_2O_2$	5,7-Dichloro-3(2H)-benzofuranone	2-14 μ	S	Spec	Stefanye	JOC	20	(1955)	813
$C_8H_4Cl_3F_3$	m-Chloro- α, α-dichloro-β, β, β-trifluoroethylbenzene	3-15 μ	L	Spec	Park	JACS	73	(1951)	709
$C_8H_4Cl_4O$	ω:2:4:6-Tetrachloroacetophenone	- -	L,Sol S,L,G, Sol	Rotational Iso Freq , Dipole effect	Bellamy Bellamy	JCS JCS	- -	(1956) (1957)	3704 4249
$C_8H_4FNO_2$	5-Fluoroisatin	1300-3500	Sol	H bond, Struct, Freq	O'Sullivan	JCS	-	(1957)	2202
$C_8H_4FNO_2$	6-Fluoroisatin	1300-3500	Sol	H bond, Struct, Freq	O'Sullivan	JCS	-	(1957)	2202
$C_8H_4FNO_2$	7-Fluoroisatin	1300-3500	Sol	H bond, Struct, Freq	O'Sullivan	JCS	-	(1957)	2202
$C_8H_4F_6$	1,4-Bis-trifluoromethylbenzene	2-22 μ -	L -	IR, Assign Struct	Ferguson Randle	JCP JCS	21 -	(1953) (1955)	1731 1311
$C_8H_4F_{10}O_2$	2,2,2-Trifluoroethyl 4,4,5,5,6,6,6-heptafluoro-2-hexenoate	-	L	Band freq	Filler	JACS	76	(1954)	1376
$C_8H_4INO_2$	4-Iodoisatin	1300-3500	Sol	H bond, Struct, Freq	O'Sullivan	JCS	-	(1957)	2202

$C_8H_4INO_2$	6-Iodoisatin	1300-3500	Sol	H bond, Struct, Freq	O'Sullivan	JCS	-	(1957)	2202
$C_8H_4INO_2$	7-Iodoisatin	1300-3500	Sol	H bond, Struct, Freq	O'Sullivan	JCS	-	(1957)	2202
$C_8H_4N_2$	m-Dicyanobenzene	625-5000	S	IR anal, Spec	Hadden	AC	31	(1959)	1052
		-	L	Substitution effect	Cabana	JPC	64	(1960)	1941
$C_8H_4N_2$	Phthalonitrile	-	Sol	Solvent effect, Freq, I	Bayliss	SA	15	(1959)	12
		625-5000	S	IR anal, Spec	Hadden	AC	31	(1959)	1052
		-	L	Substitution effect	Cabana	JPC	64	(1960)	1941
$C_8H_4N_2$	Terephthalonitrile	-	-	Band freq	Kitson	AC	24	(1952)	334
		625-5000	S	IR anal, Spec	Hadden	AC	31	(1959)	1052
		-	L	Substitution effect	Cabana	JPC	64	(1960)	1941
$C_8H_4N_2O_4$	7-Nitroisatin	1300-3500	Sol	H bond, Struct, Freq	O'Sullivan	JCS	-	(1957)	2202
$C_8H_4N_2O_4$	3-Nitrophthalimide	1290-4000	Sol	H bond, Struct, Spec	Kellie	JCS	-	(1956)	3809
$C_8H_4N_2O_4$	4-Nitrophthalimide	1290-4000	Sol	H bond, Struct, Spec	Kellie	JCS	-	(1956)	3809
$C_8H_4N_6O_4$	2,4,5,7-Tetrahydroxy-pyrimido (5,4-g) pteridine (Bis-alloxazine)	-	S	Ident	Taylor	JACS	76	(1954)	1874
		-	-	Ident	Taylor	JACS	77	(1955)	2243
$C_8H_4N_6O_4$	2,4,6,8-Tetrahydroxy-pyrimido (5,4-g) pteridine	-	-	Ident	Taylor	JACS	77	(1955)	2243
$C_8H_4O_2$	2,4,6-Octatriynoic acid	-	Sol	Group freq, I	Allan	JCS	-	(1955)	1874
$C_8H_4O_3$	Coumaran-2,3-dione	-	S	Band freq	Grove	JCS	-	(1951)	883
$C_8H_4O_3$	Phthalic anhydride	1050-2000	-	Spec, Absorption freq	Barnes	IEC	15	(1943)	659
		2-16 μ	S	Spec	Ingebrigtson	AC	26	(1954)	1765
		330-2000	S	Freq	Jakobson	APS	14	(1960)	61

$C_8H_4O_4$	Phthaloyl peroxide	-	S,Sol	Table, Band freq	Davison	JCS	-	(1951)	2456
$C_8H_4O_5$	3,6-Dihydroxyphthalic anhydride	-	Sol	H bond	Farmer	JCS	-	(1956)	3600
C_8H_5D	Phenylacetylene-d_1	-	Sol	H bond	Murshashi	BCSJ	32	(1959)	1001
$C_8H_5DO_3$	Piperonal-d_1	2-15μ	L,S, Sol	Band freq	Eggers	AC	28	(1956)	1328
		-	-	Band freq	Pinchas	AC	29	(1957)	334
C_8H_5Br	p-Bromophenyl-acetylene	-	Sol	Band freq, I	Jacobs	JOC	17	(1952)	475
$C_8H_5BrCl_4O$	5-Bromomethyl-1,2,3,4-tetrachlorobicyclo [2.2.1]-2-hepten-7-one	-	Sol	Band freq	Mcbee	JACS	77	(1955)	559
$C_8H_5BrN_2O_2$	6-Bromoisatin-β-oxime	650-1000	-	Freq	O'Sullivan	SA	16	(1960)	762
$C_8H_5BrN_2O_2$	C-Bromo-N-phenyl-sydnone	2-15μ	S	Spec	Earl	JCS	-	(1951)	2207
		-	-	Band freq	Fugger	JACS	77	(1955)	1843
$C_8H_5BrO_4$	4-Bromo-3-hydroxy-5-oxocycloheptatriene-carboxylic acid	669-3165	S	Table	Johns	JCS	-	(1954)	4605
$C_8H_5BrO_4$	6-Bromopiperonylic acid	700-1500	S	Freq	Briggs	AC	29	(1957)	904
$C_8H_5BrO_5$	Bromostipitatic acid	685-3268	S	Table, I	Johns	JCS	-	(1954)	198
$C_8H_5Br_2Cl_3O$	2,6-Dibromo-4-methyl-4-trichloromethyl-2,5-cyclohexadienone	-	S	Band freq	Newman	JOC	19	(1954)	978

$C_8H_5Br_3O$	ω,ω,ω-Tribromoacetophenone	-	Sol	Substitution effect	Jones	CJC	36 (1958) 1020
$C_8H_5Br_3O_2$	2,5,7-Tribromo-3-methoxytropone	666-1610	S	Table	Johns	JCS	- (1954) 4605
$C_8H_5ClN_2O$	6-Chloro-4-quinazolone	-	-	Struct	Sherrill	JOC	19 (1954) 699
$C_8H_5ClO_3$	Phenyl chloroglyoxylate	1740-1800	Sol	Freq	Simon	JOC	23 (1958) 1078
$C_8H_5Cl_2F_3$	α,α-Dichloro-β,β,β-trifluoroethylbenzene	3-15μ	L	Spec	Park	JACS	73 (1951) 709
$C_8H_5Cl_2I^{131}O_3$	2,4-Dichloro-5-iodo^{131} phenoxyacetic acid	2-15μ	-	Spec	Ard	AC	23 (1951) 133
$C_8H_5Cl_2NO$	3,3-Dichlorooxindole	1290-4000	Sol	Struct, Spec, H bond	Kellie	JCS	- (1956) 3809
$C_8H_5Cl_3O$	ω,2,4-Trichloroacetophenone	- -	L,Sol G,L, Sol	Rotational iso C = O freq	Bellamy Bellamy	JCS JCS	- (1956) 3704 - (1957) 4294
$C_8H_5Cl_3O$	ω,2,5-Trichloroacetophenone	- -	L,Sol G,L, Sol	Rotational iso CO freq	Bellamy Bellamy	JCS JCS	- (1956) 3704 - (1957) 4294
$C_8H_5Cl_3O$	ω,3,4-Trichloroacetophenone	- -	L,Sol G,L, Sol	Rotational iso CO freq	Bellamy Bellamy	JCS JCS	- (1956) 3704 - (1957) 4294
$C_8H_5Cl_3O$	ω,ω,ω-Trichloroacetophenone	-	Sol	Substitution effect	Jones	CJC	36 (1958) 1020
$C_8H_5Cl_3OS$	Phenylthio trichloroacetate	2.5-6.5μ	Sol	Effect of structure on frequency	Nyquist	SA	15 (1959) 514

$C_8H_5Cl_5O$	2,6-Dichloro-4-methyl-4-trichloromethyl-2,5-cyclohexadienone	-	S	Band freq	Newman	JOC	19 (1954)	978
$C_8H_5FN_2O_2$	5-Fluoroisatin-β-oxime	650-1000	-	Freq	O'Sullivan	SA	16 (1960)	762
$C_8H_5F_3O$	ω,ω,ω-Trifluoroacetophenone	3-15μ 650-5000	G,L Sol	Spec Stretch freq	Park Griffin	JACS SA	73 (1951) 16 (1960)	709 1464
$C_8H_5F_3OS$	Phenylthio trifluoroacetate	2.5-16μ	Sol	Structure effect on freq	Nyquist	SA	15 (1958)	514
$C_8H_5F_3O_2S$	α-Thenoyltrifluoroacetone	-	Sol	Group freq	Bellamy	JCS	- (1954)	4487
$C_8H_5F_5O$	Ethyl pentafluorophenyl ether	900-1550	L	Characteristic freq	Birchall	JCS	- (1959)	13
$C_8H_5F_9O_2$	1,1,1,2,2,3,3,4,4-Nonafluoro-5,7-octanedione	-	-	H bond, Band freq	Park	JACS	75 (1953)	4753
$C_8H_5IN_2O_2$	6-Iodoisatin-β-oxime	650-1000	-	Freq	O'Sullivan	SA	16 (1960)	762
C_8H_5NO	Agrocybin	-	S	Group freq, I	Jones	JCS	- (1953)	3719
C_8H_5NO	Benzoyl cyanide	700-4000 -	L Sol,L	Spec, Struct anal Freq, I	Marvel Foffani	JACS NC	71 (1949) 13 (1959)	34 213
C_8H_5NO	4-Cyanobenzaldehyde	-	Sol	Group & band freq	Pinchas	AC	27 (1955)	2
C_8H_5NOS	Benzoyl isothiocyanate	2000-2300 4000-750	Sol L	Freq Spec	Caldow Ham	SA SA	13 (1958) 16 (1960)	212 393
$C_8H_5NO_2$	o-Cyanobenzoic acid	700-4000	S,L	Table, Band freq	Flett	JCS	- (1951)	962
$C_8H_5NO_2$	p-Cyanobenzoic acid	850-900	L,Sol	Bending freq	Yoshida	CPBT	8 (1960)	389

$C_8H_5NO_2$	Isatin	2000-700	S	Spec, Group freq	Bergmann	JACS	77	(1955)	1549
		3μ	Sol	Spec, Struct	Russell	SA	8	(1956)	138
		1300-3500	Sol	H bond, Struct, Freq	O'Sullivan	JCS	-	(1957)	2202
		650-1000	-	Freq	Binder	JACS	81	(1959)	3608
		1500-3500	Sol	Freq assign, Struct	Sadler	JCS	-	(1959)	667
$C_8H_5NO_2$	Phthalimide	1290-4000	Sol	Struct, H bond, Spec	Kellie	JCS	-	(1956)	3809
		3μ	Sol	Spec	Russell	SA	8	(1956)	138
		3650-1400	Sol	Spec, Assign	Mason	JCS	-	(1957)	4874
$C_8H_5NO_2S$	m-Carboxyphenyl thiocyanate	2000-2300	Sol	Group freq, Assign	Caldow	SA	13	(1958)	212
$C_8H_5NO_2S$	p-Carboxyphenyl thiocyanate	2000-2300	Sol	Group freq, Assign	Caldow	SA	13	(1958)	212
$C_8H_5NO_3S$	3-Carboxy-4-hydroxyphenyl isothiocyanate	2000-3000	Sol	Group freq, Assign	Caldow	SA	13	(1958)	212
$C_8H_5NO_5$	6-Nitropiperonal	725-1500	S	Group freq	Briggs	AC	29	(1957)	904
$C_8H_5NO_8$	2,3,4,5-Tetracarboxypyrrole	-	S,Sol	Spec	Scrocco	AAN	20	(1956)	795
$C_8H_5N_7O_3$	2-Amino-4,5,7-trihydroxypyrimido(5,4-g) pteridine	-	S	Ident	Taylor	JACS	76	(1954)	1874
		-	-	Ident	Taylor	JACS	77	(1955)	2243
C_8H_6	Dimethyltriacetylene	443-3283	Sol	Freq	Weber	JCP	21	(1953)	1613
C_8H_6	Phenylacetylene	2.9-3.15μ	L	Spec	Stanford	JACS	63	(1941)	1094
		2.5-15μ	L	Spec	Wright	IEC	13	(1941)	1
		2-20μ	L	Spec	Thompson	JCS	-	(1944)	595
		-	-	FC	Linnett	TFS	41	(1945)	223
		-	Sol	H bond	Murshashi	BCSJ	32	(1959)	1001
		300-3800	G,Sol	Freq	Nyquist	SA	16	(1960)	417
		-	G	Spec	Zeil	ZN	15	(1960)	1011

$C_8H_6D_3NO$	Acetanilide-d_3	750-5000	S,L	IR, I	Abbott	PRS	234	(1956)	247
$C_8H_6D_3NO$	Acetanilide-C-d_3	1200-1500	S	Spec, Freq	Abbott	PRS	234	(1956)	247
C_8H_6BrClO	p-Chlorophenacyl bromide	-	Sol	Substitution effect	Thompson	SA	9	(1957)	208
C_8H_6BrNO	5-Bromooxindole	1290-4000	Sol	Spec, H bond, Struct	Kellie	JCS	-	(1956)	3809
$C_8H_6Br_2O$	p-Bromophenacyl bromide	-	Sol	Substitution effect	Thompson	SA	9	(1957)	208
$C_8H_6Br_2O$	ω,ω-Dibromoacetophenone	-	Sol	Substitution effect	Jones	CJC	36	(1958)	1020
$C_8H_6Br_2O_2$	6-Bromopiperonyl bromide	700-5000	Sol	Group freq	Briggs	AC	29	(1957)	904
$C_8H_6Br_2O_2$	Methyl 2,4-dibromobenzoate	656-3060	Sol	Table, Anal, I	Doering	JACS	76	(1954)	39
$C_8H_6Br_2O_2$	Methyl 2,5-dibromobenzoate	657-3055	Sol	Table, Anal, I	Doering	JACS	76	(1954)	39
$C_8H_6Br_2O_2$	Methyl 3,5-dibromobenzoate	662-3050	Sol	Table, Anal, I	Doering	JACS	76	(1954)	39
$C_8H_6Br_2O_3$	Methyl 3,5-dibromosalicylate	-	-	H bond	Hilbert	JACS	58	(1936)	548
$C_8H_6Br_2O_4$	1-exo-trans-4,5-Dibromo-cis-3,6-endoxo-tetrahydrophthalic anhydride	-	-	Spec, Ident	Berson	JACS	75	(1953)	4366
$C_8H_6Br_2O_4$	exo-trans-4,5-Dibromo-3,6-endoxo-tetrahydrophthalic anhydride	-	S,Sol	Ident, Spec	Berson	JACS	76	(1954)	4060

C_8H_6ClN	O-Chlorophenyl-acetonitrile	-	-	Ident	Shapiro	JACS	75	(1953)	4769
C_8H_6ClN	O-Cyanobenzyl chloride	800-1600	-	Band study, Ext coeff	Katritzky	JCS	-	(1959)	3670
C_8H_6ClNO	5-Chlorooxindole	1290-4000	Sol	Spec, Struct, H bond	Kellie	JCS	-	(1956)	3809
$C_8H_6ClNO_2$	5-Chloro-2-methoxy-benzonitrile-N-oxide	600-3000	Sol	Spec	Wiley	JOC	25	(1960)	546
$C_8H_6ClN_3$	5-Chloro-1-phenyl-1,2,3-triazole	900-1310	S	Vib, Assign, I	Lieber	CJC	36	(1958)	1441
$C_8H_6Cl_2$	2,6-Dichlorophenyl-ethylene	-	Sol	Group freq, Spec	Potts	SA	15	(1959)	679
$C_8H_6Cl_2O$	ω,4-Dichloroaceto-phenone	-	S,L,G, Sol	Rotational iso	Bellamy	JCS	-	(1956)	3704
		-	S,L,G Sol	Freq , Dipolar effect	Bellamy	JCS	-	(1957)	4294
$C_8H_6Cl_2O$	ω,ω-Dichloroaceto-phenone	-	L,S, Sol	Rotational iso	Bellamy	JCS	-	(1956)	3704
		-	S,L,G, Sol	Freq , Dipolar effect	Bellamy	JCS	-	(1957)	4294
		-	Sol	Substitution effect	Jones	CJC	36	(1958)	1020
$C_8H_6Cl_2OS$	Phenylthio dichloro-acetate	2.5-16 μ	Sol	Structure effect on freq	Nyquist	SA	15	(1959)	514
$C_8H_6Cl_2O_3$	2,4-Dichlorophenoxy-acetic acid	2-15 μ	Sol	Spec	Ard	AC	23	(1951)	133
$C_8H_6Cl_2O_4$	2,5-Dichloro-3,6-dimethoxy-p-benzoquinone	2200-8000	Sol	Band study	Buckley	JCS	-	(1957)	4891

$C_8H_6Cl_2O_4$	3,5-Dichloro-2,6-dimethoxy-p-benzoquinone	2200-8000	Sol	Band study	Buckley	JCS	-	(1957)	4891
$C_8H_6Cl_3NO_2$	2,3,5-Trichloro-6-dimethylamino-p-benzoquinone	2200-8000	Sol	Band study	Buckley	JCS	-	(1957)	4891
$C_8H_6Cl_4$	Ethyl-1,3,4,5-tetra-chlorobenzene	9-14 μ	Sol	Freq, I, Dipole moment	Cole	TFS	46	(1950)	103
$C_8H_6Cl_4O$	Trichloromethyl-m-chlorophenylcarbinol	690-3600	Sol	H bond, Band freq	Bergmann	JACS	74	(1952)	1263
$C_8H_6Cl_4O$	Trichloromethyl-o-chlorophenylcarbinol	700-3620	Sol	H bond, Band freq	Bergmann	JACS	74	(1952)	1263
$C_8H_6F_3NO$	Trifluoroacetanilide	-	Sol	Band freq	Boarne	JCS	-	(1952)	4014
		-	L,S	Band freq	Robson	JACS	77	(1955)	498
$C_8H_6F_{10}$	3,3,4,5,5,6,6,7,7,7-Decafluoro-2-methyl-hept-1-ene	-	-	Band study	Lazerte	JACS	77	(1955)	910
$C_8H_6N_2$	Quinazoline	700-3500	S	Spec, Table, Assign	Culbertson	JACS	74	(1952)	4834
$C_8H_6N_2 \cdot H_2O$	1,3-Diazazulene hydrate	-	S	Band freq, I	Nozoe	JACS	76	(1954)	3352
$C_8H_6N_2O$	3-Hydroxycinnoline	3650-1400	Sol	Spec, Assign	Mason	JCS	-	(1957)	4874
$C_8H_6N_2O$	4-Hydroxycinnoline	3650-1400	Sol	Spec, Assign	Mason	JCS	-	(1957)	4874
$C_8H_6N_2O$	5-Hydroxycinnoline	3650-1400	Sol	Spec, Assign	Mason	JCS	-	(1957)	4874
$C_8H_6N_2O$	6-Hydroxycinnoline	3650-1400	Sol	Spec, Assign	Mason	JCS	-	(1957)	4874
$C_8H_6N_2O$	7-Hydroxycinnoline	3650-1400	Sol	Spec, Assign	Mason	JCS	-	(1957)	4874

$C_8H_6N_2O$	8-Hydroxycinnoline	3650-1400	Sol	Spec, Assign	Mason	JCS	-	(1957)	4874
$C_8H_6N_2O$	1-Hydroxyphthalazine	3650-1400	Sol	Spec, Assign	Mason	JCS	-	(1957)	4874
$C_8H_6N_2O$	6-Hydroxyphthalazine	3650-1400	Sol	Spec, Assign	Mason	JCS	-	(1957)	4874
$C_8H_6N_2O$	2-Hydroxyquinazoline	3650-1400	Sol	Spec, Assign	Mason	JCS	-	(1957)	4874
$C_8H_6N_2O$	4-Hydroxyquinazoline	3650-1400	Sol	Spec, Assign	Mason	JCS	-	(1957)	4874
$C_8H_6N_2O$	6-Hydroxyquinazoline	3650-1400	Sol	Spec, Assign	Mason	JCS	-	(1957)	4874
$C_8H_6N_2O$	8-Hydroxyquinazoline	3650-1400	Sol	Spec, Assign	Mason	JCS	-	(1957)	4874
$C_8H_6N_2O$	2-Hydroxyquinoxaline	3650-1400	Sol	Spec, Assign	Mason	JCS	-	(1957)	4874
$C_8H_6N_2O$	5-Hydroxyquinoxaline	3650-1400	Sol	Spec, Assign	Mason	JCS	-	(1957)	4874
$C_8H_6N_2O$	6-Hydroxyquinoxaline	3650-1400	Sol	Spec, Assign	Mason	JCS	-	(1957)	4874
$C_8H_6N_2O$	2-Quinazalone	700-3500	S	Spec, Table, Assign	Culbertson	JACS	74	(1952)	4834
$C_8H_7N_2O$	4-Quinazalone	700-3500	S	Spec, Table, Assign	Culbertson	JACS	74	(1952)	4834
$C_8H_6N_2O$	Quinoxaline-N-oxide	800-1600	-	Spec, Ident	Clemo	JCS	-	(1950)	1481
$C_8H_6N_2O_2$	Isatin-α-oxime	900-4000	S	Comparison	O'Sullivan	JCS	-	(1959)	876
$C_8H_6N_2O_2$	Isatin-β-oxime	900-4000	S	Comparison	O'Sullivan	JCS	-	(1959)	876
		650-1000	-	Freq	O'Sullivan	SA	16	(1960)	762
$C_8H_6N_2O_2$	Malonyl-α-amino-pyridine	700-3400	S	Spec	Snyder	JACS	74	(1952)	4910
$C_8H_6N_2O_2$	p-Nitrophenylaceto-nitrile	1300-1600	S,Sol	Assign, Struct	Kross	JACS	78	(1956)	4225

$C_8H_6N_2O_2$	3-Phenyl-5-hydroxy-1,2,4-oxadiazole	-	-	Ident	Adams	JOC	18	(1953)	934
$C_8H_6N_2O_2$	2,4-Quinazolinedione	700-3500	S	Spec, Table, Assign	Culbertson	JACS	74	(1952)	4834
		2-16μ	S	Spec, Group freq	Staiger	JOC	18	(1953)	1427
$C_8H_6N_2O_2$	Quinoxaline-di-N-oxide	800-1600	-	Spec, Ident	Clemo	JCS	-	(1950)	1481
$C_8H_6N_2O_3$	5-Nitrooxindole	1290-4000	Sol	Spec, Struct, H bond	Kellie	JCS	-	(1956)	3809
$C_8H_6N_2O_3$	4-Mercaptoquinazoline	700-3500	S	Spec, Table, Assign	Culbertson	JACS	74	(1952)	4834
$C_8H_6N_2S$	2-Mercaptoquinoxaline	700-3800	S,Sol	Freq assign	Spinner	JCS	-	(1960)	1237
$C_8H_6N_2S$	2-Phenyl-1,3,4-thiadiazole	-	-	Ident	Ainsworth	JACS	77	(1955)	1148
$C_8H_6N_4O_2$	2,4-Diamino-5,6-dihydroxypyrimido-[5,4,g]pteridine	-	S	Ident	Taylor	JACS	76	(1954)	1874
$C_8H_6N_4O_4S_2$	5-Uracilyl disulfide	-	S	Spec	Bardos	JACS	77	(1955)	960
$C_8H_6N_4O_6S_2 \cdot 2H_2O$	Di-2,4,6-trihydroxy-pyrimidin-5-yl disulfide	-	S	Ident, Band freq	Barker	JCS	-	(1954)	4206
C_8H_6O	Benzofuran	2-16μ	L	Spec	Entel	JACS	73	(1951)	4152
		-	-	Ident	Vanmeter	AC	24	(1952)	1758
C_8H_6OS	Benzo-1,4-oxathiadiene	-	-	Ident	Parham	JACS	76	(1954)	1068
$C_8H_6O_2$	Coumaranone	2-13μ	Sol	Spec	Bose	JACS	74	(1952)	4703
$C_8H_6O_2$	4-Formylbenzaldehyde	-	Sol	Group freq	Pinchas	AC	27	(1955)	2
$C_8H_6O_2$	Phenylglyoxal	-	Sol	Band freq	Cosgrove	JCS	-	(1952)	4821

$C_8H_6O_2$	Phthalaldehyde	-	S	Band freq	Grove	JCS	-	(1952)	3345
		2.8-12 μ	Sol	H bond, Band freq	Pinchas	AC	29	(1957)	334
$C_8H_6O_2$	Phthalide	-	S	Band freq, Taut	Grove	JCS	-	(1951)	877
		-	S	Band freq	Grove	JCS	-	(1952)	3345
		-	S,Sol	Group freq	Duncanson	JCS	-	(1953)	1331
		2-15 μ	Sol	Spec, Anal, Group freq	Pristera	AC	25	(1953)	844
		-	-	Band freq	Highet	JACS	77	(1955)	4399
		1550-1850	Sol	Freq	Jones	CJC	37	(1959)	2007
		330-2000	S	Freq	Jakobsen	APS	14	(1960)	61
$C_8H_6O_2S$	4-Hydroxy-4-(2-thienyl)-2-butenoic acid lactone	-	-	Band freq	Vaitiekunas	JACS	76	(1954)	2737
$C_8H_6O_2S_2$	Dithiolisophthalic acid	-	S	Spec, Group freq	Marvel	JOC	18	(1953)	707
$C_8H_6O_3$	Benzoylformic acid	-	Sol	H bond	Oki	BCSJ	33	(1960)	119
$C_8H_6O_3$	2-Formylbenzoic acid	-	S	Band freq, Taut	Grove	JCS	-	(1951)	877
		-	S	Band freq	Grove	JCS	-	(1952)	3345
$C_8H_6O_3$	4-Hydroxycoumaranone	-	Sol	H bond	Farmer	JCS	-	(1956)	3600
$C_8H_6O_3$	4-Hydroxyphthalide	-	S,Sol	Group freq	Duncanson	JCS	-	(1953)	1331
$C_8H_6O_3$	7-Hydroxyphthalide	-	S,Sol	H bond, Group freq	Duncanson	JCS	-	(1953)	1331
$C_8H_6O_3$	4-Ketocycloheptatriene-carboxylic acid	735-1709	S	Table, Band freq	Bartels	JCS	-	(1952)	4461
$C_8H_6O_3$	Piperonal	-	S	Band freq	Wildman	JACS	77	(1955)	1248
		2-15 μ	L,S, Sol	Band freq	Eggers	AC	28	(1956)	1328
		700-5000	S,Sol	Group freq	Briggs	AC	29	(1957)	904
		2-21 μ	Sol	Anal	Powers	AC	32	(1960)	1287
$C_8H_6O_3$	Tropone-4-carboxylic acid	-	S	Band freq	Johns	JCS	-	(1955)	309

$C_8H_6O_4$	4,6-Dihydroxycoumaranone	-	Sol	H bond	Farmer	JCS	-	(1956)	3600
		-	Sol	Spec, Struct	Duncanson	JCS	-	(1957)	3555
$C_8H_6O_4$	3-Hydroxy-5-oxocycloheptatrienecarboxylic acid	680-3390	S	Table	Johns	JCS	-	(1954)	4605
$C_8H_6O_4$	3-Hydroxytropone-2-carboxylic acid	778-1666	S	Table	Johns	JCS	-	(1954)	4605
$C_8H_6O_4$	5-Hydroxytropone-3-carboxylic acid	706-2941	S	Table	Johns	JCS	-	(1955)	309
$C_8H_6O_4$	Isophthalic acid	2-15μ	S	Spec, Freq, Assign	Gonzales	SA	12	(1958)	17
$C_8H_6O_4$	trans-2-trans-4-Octadiene-6-yne-1,8-dioic acid	-		Group freq, I	Allan	JCS	-	(1955)	1874
$C_8H_6O_4$	Octa-4,6-diene-2-ynedioic acid	-	-	I, Struct	Jones	JCS	-	(1954)	3212
$C_8H_6O_4$	2,6-Octadiyne-1,8-dioic acid	-	S	Group freq, I	Allan	JCS	-	(1955)	1874
$C_8H_6O_4$	Piperonylic acid	700-5000	S	Group freq	Briggs	AC	29	(1957)	904
		5.5-6.5μ	Sol	Band study, Ident	Sawicki	AC	31	(1959)	523
$C_8H_6O_4$	Phthalic acid	700-4000	S,L	Table, Band freq	Flett	JCS	-	(1951)	962
		2-8.5μ	S	Spec, H bond	Cardwell	JCS	-	(1953)	3740
		-	S	Spec, Ident	Kalkwarf	AC	26	(1954)	191
		2.5-15.5μ	S	Spec, Anal, I	Wright	APS	9	(1955)	105
		2-15μ	S	Spec, Freq, Assign	Gonzalez	SA	12	(1958)	17
$C_8H_6O_4$	Terephthalic acid	700-4000	S,L	Table, Band freq	Flett	JCS	-	(1951)	962
		-	-	Ident	Schubert	JACS	76	(1954)	5462
		2.5-15.5μ	S	Spec, Anal, I	Wright	APS	9	(1955)	105
		12-15μ	L	Bending freq	Kross	JACS	78	(1956)	1332
		2-15μ	S	Spec, Freq, Assign	Gonzalez	SA	12	(1958)	17
		-	-	Spec, Freq	Seidel	ZE	62	(1958)	214

$C_8H_6O_4$	Tropolone-4-carboxylic acid	-	S	Band freq	Bartels	JCS	-	(1951)	2352
		-	S	Band freq	Johns	JCS	-	(1954)	4605
$C_8H_6O_4$	Tropolone-5-carboxylic acid	691-3125	S	Table	Johns	JCS	-	(1955)	309
$C_8H_6O_5$	2,3-Dicarboxy-5,6-dihydroxy-1,4-oxo-cyclohexane dilactone	-	-	Band freq	Berson	JACS	76	(1954)	4975
$C_8H_6O_5$	5-Hydroxyisophthalic acid	-	S	Ident	Johns	JCS	-	(1954)	198
$C_8H_6O_5$	Isostipitatic acid	664-3448	S	Table, I	Johns	JCS	-	(1954)	198
		-	S	Band freq	Johns	JCS	-	(1954)	4605
$C_8H_6O_5$	Stipitatic acid	-	-	Band freq, Struct	Johnson	JCS	-	(1951)	1139
		-	S	Band freq	Johns	JCS	-	(1954)	4605
$C_8H_6O_6$	Puberulic acid	-	-	Band freq, Struct	Johnson	JCS	-	(1951)	1139
		-	S	Ident	Johns	JCS	-	(1951)	198
$C_8H_6O_7$	Diacetoxymaleic anhydride	5.35-11.75μ	Sol	Table, Group freq, I	Goodwin	JACS	76	(1954)	5599
C_8H_6S	Thianaphthene	9-14μ	Sol	Spec, Anal	Armstrong	JCS	-	(1950)	3359
		-	-	Spec	Haines	JPC	60	(1956)	549
		14.5μ	Sol	Anal	Seeber	AC	31	(1959)	621
		800-1725	Sol	Freq	O'Sullivan	JCS	-	(1960)	3278
$C_8H_7DO_2$	p-Methylbenzoic acid-O-d_1	650-900	L,Sol	Bending freq	Yoshida	CPBT	8	(1960)	389
$C_8H_7DO_3$	p-Methoxybenzoic acid-O-d_1	650-900	L,Sol	Bending freq	Yoshida	CPBT	8	(1960)	389
$C_8H_7D_2NO$	Phenylacetamide-d_2	-	-	Deuterium exchange	Bonner	JACS	76	(1954)	6350

C_8H_7Br	Bromocyclooctatetraene	2-16μ	Sol	Spec	Cope	JACS	74	(1952)	168
C_8H_7Br	cis-β-Bromostyrene	10-14μ	Sol	Spec, Anal	Grovenstein	JACS	75	(1953)	2639
C_8H_7Br	o-Bromostyrene	-	Sol	Spec, Group freq	Potts	SA	15	(1959)	679
C_8H_7Br	trans-β-Bromostyrene	10-14μ	Sol	Spec, Anal	Grovenstein	JACS	75	(1953)	2639
$C_8H_7BrClNO$	4-Chloro-5-bromoacetanilide	700-1400	Sol	Assign, Substitution effect	Holt	JCS	-	(1958)	1217
C_8H_7BrO	m-Bromoacetophenone	5-7μ	L	Band freq	Soloway	JACS	73	(1951)	5000
C_8H_7BrO	o-Bromoacetophenone	-	Sol	H bond, Freq, I	Forbes	CJC	35	(1957)	488
		-	Sol	I	Jones	CJC	35	(1957)	504
C_8H_7BrO	p-Bromoacetophenone	5-7μ	S	Band freq	Soloway	JACS	73	(1951)	5000
		1600-1800	Sol	Band freq	Fuson	JACS	76	(1954)	2526
		-	Sol	Band freq, I	Tanaka	JCP	24	(1956)	311
		-	Sol	H bond, Freq, I	Forbes	CJC	35	(1957)	488
		-	Sol	I	Jones	CJC	35	(1957)	504
		-	Sol	Substitution effect	Thompson	SA	9	(1957)	208
C_8H_7BrO	ω-Bromoacetophenone	-	Sol	Substituion effect	Thompson	SA	9	(1957)	208
		-	Sol	Substitution effect	Jones	CJC	36	(1958)	1020
C_8H_7BrOS	Phenylthio monobromoacetate	2.5-16μ	Sol	Structure effect on freq	Nyquist	SA	15	(1959)	514
$C_8H_7BrO_2$	2-Bromo-3-methoxytropone	669-1639	S	Table	Johns	JCS	-	(1954)	4605
$C_8H_7BrO_2$	p-Bromophenacyl alcohol	-	-	Group freq, Ident	Grove	JCS	-	(1950)	3350
$C_8H_7BrO_2$	m-Bromophenyl acetate	-	Sol	Freq	Freeman	JACS	82	(1960)	2454

$C_8H_7BrO_2$	p-Bromophenyl acetate	-	Sol	Freq	Freeman	JACS	82 (1960) 2454
$C_8H_7BrO_2$	Carboxycyclohepta-trienylium bromide	686-3279	S	Table	Johnson	JCS	- (1955) 1622
$C_8H_7BrO_2$	Methyl o-bromobenzoate	800-1600	-	I, Ext coeff	Katritzky	JCS	- (1959) 3670
		800-1500	Sol	Group assign	Katritzky	SA	16 (1960) 954
		-	-	Band study, Assign	Katritzky	SA	16 (1960) 964
$C_8H_7BrO_2$	Methyl m-bromo-benzoate	1500-5000	Sol	Group freq	Briggs	AC	29 (1957) 904
$C_8H_7BrO_2$	Piperonyl bromide	718-1490	Sol	Group freq	Briggs	AC	29 (1957) 904
$C_8H_7BrO_3$	6-Bromopiperonyl alcohol	700-5000	S,Sol	Group freq	Briggs	AC	29 (1957) 904
$C_8H_7BrO_5$	endo-cis-6-Bromo-2,3-dicarboxy-5-hydroxy-1,4-oxocyclohexane-3,5-lactone	-	-	Group freq	Berson	JACS	76 (1954) 4975
$C_8H_7BrO_5$	6-Bromo-trans-2,3-dicarboxy-5-hydroxy-1,4-oxocyclohexane-3,5-lactone	-	-	Group freq	Berson	JACS	76 (1954) 4975
$C_8H_7BrO_5$	exo-Bromolactonic acid	-	S	Ident	Berson	JACS	75 (1953) 1721
		-	-	Group freq	Berson	JACS	76 (1954) 4975
C_8H_7Cl	Chlorocycloocta-tetraene	2-16μ	Sol	Spec	Cope	JACS	74 (1952) 168
C_8H_7Cl	1-Chloro-1-phenyl-ethylene	-	Sol	Group freq, Spec	Potts	SA	15 (1959) 679
C_8H_7Cl	β-Chlorostyrene	2-16μ	Sol	Spec, Iso	Cope	JACS	74 (1952) 168
C_8H_7Cl	o-Chlorostyrene	-	Sol	Spec, Group freq	[illegible]	[illegible]	[illegible]

C_8H_7Cl	O-Chlorostyrene	-	Sol	Spec, Group freq	Potts	SA	15	(1959)	679
C_8H_7Cl	cis-β-Chlorostyrene	2-16μ	Sol	Spec	Cope	JACS	74	(1952)	168
C_8H_7ClO	m-Chloroacetophenone	-	Sol	H bond, Freq, I	Forbes	CJC	35	(1957)	488
		-	Sol	I	Jones	CJC	35	(1957)	504
C_8H_7ClO	o-Chloroacetophenone	2.5-15μ	-	Spec	Wright	APS	9	(1955)	105
		-	Sol	H bond, Freq, I	Forbes	CJC	35	(1957)	488
		-	Sol	I	Jones	CJC	35	(1957)	504
C_8H_7ClO	p-Chloroacetophenone	5-7μ	L	Band freq	Soloway	JACS	73	(1951)	5000
		1600-1800	Sol	Band freq	Fuson	JACS	76	(1954)	2526
		-	Sol	Band freq, I	Tanaka	JCP	24	(1956)	311
		-	Sol	H bond, Freq, I	Forbes	CJC	35	(1957)	488
		-	Sol	I	Jones	CJC	35	(1957)	504
		-	Sol	Substitution effect	Thompson	SA	9	(1957)	208
C_8H_7ClO	ω-Chloroacetophenone	-	S,L, Sol	Rotation iso	Bellamy	JCS	-	(1956)	3704
		-	S,L,G, Sol	Freq , Dipolar effect	Bellamy	JCS	-	(1957)	4294
		-	Sol	Substitution effect	Jones	CJC	36	(1958)	1020
C_8H_7ClO	α-Cycloheptatriene-carboxylic acid chloride	706-3322	S	Table	Johnson	JCS	-	(1955)	1622
C_8H_7ClO	p-Methylbenzoyl chloride	1777-1748	Sol	Freq, Chem properties	Flett	TFS	44	(1948)	767
		650-900	L,Sol	Bending freq	Yoshida	CPBT	8	(1960)	389
C_8H_7ClO	Phenylacetyl chloride	2-15μ	-	Absorption freq, Struct anal	Rasmussen	JACS	71	(1949)	1073
C_8H_7ClOS	Phenylthio monochloro-acetate	2.5-16μ	Sol	Structure effect on freq	Nyquist	SA	15	(1959)	514
$C_8H_7ClO_2$	2-Chloro-3-methoxy-tropone	789-1642	S	Table	Johnson	JCS	-	(1955)	1841

$C_8H_7ClO_2$	m-Chlorophenyl acetate	-	Sol	Freq	Freeman	JACS	82	(1960)	2454
$C_8H_7ClO_2$	p-Methoxybenzoyl chloride	1775-1747 650-900	Sol L,Sol	Freq, Chem properties Bending freq	Flett Yoshida	TFS CPBT	44 8	(1948) (1960)	767 389
$C_8H_7ClO_2$	Methyl O-chloro-benzoate	800-1600 800-1500 -	- Sol -	Ext coeff, I Group assign Band characteristic, Assign	Katritzky Katritzky Katritzky	JCS SA SA	- 16 16	(1959) (1960) (1960)	3670 954 964
$C_8H_7ClO_2S$	2-Phenylethene-sulphonyl chloride	400-4000	L	Freq, Assign	Freeman	AJC	10	(1957)	227
$C_8H_7ClO_3$	Benzyl chlorocarbonate	-	S	Band freq	Ory	SA	16	(1960)	1488
$C_8H_7ClO_3$	4-Chlorophenoxy-acetic acid	2-15 μ -	Sol Sol	Spec H bond	Ard Oki	AC BCSJ	23 33	(1951) (1960)	133 119
$C_8H_7ClO_3S$	4-Formyl-3-chloro-phenyl methyl sulfone	-	S	Substitution effect	Momose	CPBT	6	(1958)	412
$C_8H_7Cl_3NOB$	p-Methoxybenzonitrile boron trichloridecomplex	-	Sol	Freq	Gerrard	JCS	-	(1960)	2182
$C_8H_7Cl_3NB$	Benzylnitrile boron trichloride complex	-	Sol	Freq	Gerrard	JCS	-	(1960)	2182
$C_8H_7Cl_3NB$	p-Methylbenzonitrile boron trichloride complex	-	Sol	Freq	Gerrard	JCS	-	(1960)	2182
$C_8H_7Cl_3N_2$	N-Phenyltrichloro-acetamidine	1000-3500	S,Sol	H bond, Struct, Assign	Grivas	CJC	37	(1959)	795
$C_8H_7Cl_3N_2.HCl$	N-Phenyltrichloro-acetamidine hydro-chloride	1350-4000	S	Struct	Grivas	CJC	37	(1959)	1260

$C_8H_7Cl_3O$	4-Methyl-4-trichloromethyl-2,5-cyclohexadienone	-	S	Band freq	Newman	JOC	19 (1954)	978
$C_8H_7Cl_3O$	Trichloromethylphenylcarbinol	740-3600	Sol	H bond, Band freq	Bergmann	JACS	74 (1952)	1263
C_8H_7FO	m-Fluoroacetophenone	-	Sol	H bond, Freq, I	Forbes	CJC	35 (1957)	488
		-	Sol	I	Jones	CJC	35 (1957)	504
C_8H_7FO	o-Fluoroacetophenone	-	Sol	H bond, Freq, I	Forbes	CJC	35 (1957)	488
		-	Sol	I	Jones	CJC	35 (1957)	504
C_8H_7FO	p-Fluoroacetophenone	-	Sol	H bond, Freq, I	Forbes	CJC	35 (1957)	488
		-	Sol	I	Jones	CJC	35 (1957)	504
$C_8H_7F_3N_2.HCl$	N-Phenyltrifluoroacetamidine hydrochloride	-	-	Struct	Grivas	CJC	37 (1959)	1260
$C_8H_7F_7O_2$	Ethyl 4,4,5,5,6,6,6-heptafluoro-2-hexenoate	-	L	Band freq	Filler	JACS	76 (1954)	1376
C_8H_7I	β-Iodostyrene	-	-	Spec, Ident	Cope	JACS	74 (1952)	168
C_8H_7IO	p-Iodoacetophenone	-	Sol	Band freq, I	Tanaka	JCP	24 (1956)	311
		-	Sol	H bond, Freq, I	Forbes	CJC	35 (1957)	488
		-	Sol	I	Jones	CJC	35 (1957)	504
C_8H_7IO	ω-Iodoacetophenone	-	Sol	Substitution effect	Jones	CJC	36 (1958)	1020
C_8H_7N	Indole	6600-7000	Sol	Spec, Group anal	Wulf	JACS	57 (1935)	1464
		2.5-3.2 μ	Sol	H bond	Gordy	JACS	62 (1940)	497
		770-3050	L	Table, Band & group freq	Brown	JCS	- (1952)	3172
		3 μ	S,L	H bond, Band study	Fuson	JCP	20 (1952)	145

		-	-	Comparision	Neuss	JACS	75	(1953)	4870
		-	Sol	Band freq	Pozefsky	AC	27	(1955)	1466
		-	Sol	Band freq, Ext coeff, I	Russell	JCS	-	(1955)	483
		3000-3700	Sol	Freq	Soda	BCSJ	30	(1957)	499
		2900-3100	Sol	Band freq	Hill	JCS	-	(1958)	760
		3100-3350	Sol	H bond	Lund	ACS	12	(1958)	298
		3200-3600	Sol	Spec, Solvent effect	Price	PRS	255	(1960)	5
C_8H_7N	Phenylacetonitrile	1-12μ	L	Spec	Bell	JACS	57	(1935)	1023
		2.8-5.0μ	L	Spec	Gordy	JCP	3	(1935)	664
		-	-	Solvent effect	Gordy	JCP	7	(1939)	93
		-	-	FC	Linnett	TFS	41	(1945)	223
		-	-	Band freq	Kitson	AC	24	(1952)	334
		-	Sol	Band freq, Ext coeff, I	Skinner	JCS	-	(1955)	487
		2200-2300	Sol	Freq, Struct	Jesson	SA	13	(1958)	217
		-	Sol	Freq	Gerrard	JCS	-	(1960)	2182
C_8H_7N	m-Tolunitrile	5-8μ	-	C_6H_6 derivatives	Depaigne	JPR	7	(1946)	33
		4-14μ	Sol	Spec, Group freq	Anderson	JCS	-	(1947)	445
		-	-	Band freq	Kitson	AC	24	(1952)	334
		-	-	Ident	Vanmeter	AC	24	(1952)	1758
		-	-	Absorption study	Bomstein	AC	25	(1953)	512
		-	Sol	Band freq, Ext coeff, I	Skinner	JCS	-	(1955)	487
		1650-2000	-	Bending freq, Assign	Whiffen	SA	7	(1955)	253
		-	Sol	I	Brown	JACS	80	(1958)	794
C_8H_7N	o-Tolunitrile	-	-	Band freq	Kitson	AC	24	(1952)	334
		-	-	Freq	Vanmeter	AC	24	(1952)	1758
		-	-	Absorption study	Bomstein	AC	25	(1953)	512
		-	Sol	Band freq, Ext coeff, I	Skinner	JCS	-	(1955)	487
		1650-2000	-	Bending freq, Assign	Whiffen	SA	7	(1955)	253
		800-1600	-	I, Ext coeff	Katritzky	JCS	-	(1959)	3670
C_8H_7N	p-Tolunitrile	5-8μ	-	C_6H_6 derivatives	Depaigne	JPR	7	(1946)	33
		-	Sol	Band freq, Chem properties	Flett	TFS	44	(1948)	767
		-	-	Band freq	Kitson	AC	24	(1952)	334

		-	-	Band freq	Bomstein	AC	25	(1953)	512
		-	Sol	Band freq, Ext coeff, I	Skinner	JCS	-	(1955)	487
		1650-2000	-	Bending freq, Assign	Whiffen	SA	7	(1955)	253
		12-15μ	L	Bending freq	Kross	JACS	78	(1956)	1332
		-	Sol	I	Brown	JACS	80	(1958)	794
		-	Sol	Solvent effect, I	Brown	SA	10	(1958)	149
		2700-3000	G,L	Assign	Fuson	BSCF	-	(1959)	93
		700-1700	Sol	Freq, Assign	Katritzky	JCS	-	(1959)	2051
		-	Sol	Solvent effect, Ext coeff	Gerrard	JCS	-	(1960)	2182
C_8H_7NO	m-Cyanobenzyl alcohol	-	-	Substitution effect, Rot iso	Oki	BCSJ	32	(1959)	955
C_8H_7NO	p-Cyanobenzyl alcohol	-	-	Substitution effect, Rot iso	Oki	BCSJ	32	(1959)	955
C_8H_7NO	7-Hydroxyindole	2.76-9.38μ	Sol	Table, Group & band freq, I	Ek	JACS	76	(1954)	5579
C_8H_7NO	p-Methoxybenzonitrile	-	Sol	Band freq, Ext coeff, I	Skinner	JCS	-	(1955)	487
		1500-5000	Sol	Group freq	Briggs	AC	29	(1957)	904
		-	Sol	I	Brown	JACS	80	(1958)	794
		-	Sol	Solvent effect, Ext coeff	Gerrard	JCS	-	(1960)	2182
C_8H_7NO	p-Methylbenzonitrile-N-oxide	600-3000	Sol	Spec	Wiley	JOC	25	(1960)	546
C_8H_7NO	2-Methylbenzoxazole	800-1725	Sol	Freq	O'Sullivan	JCS	-	(1960)	3278
C_8H_7NO	m-Methylphenyl isocyanate	-	Sol	Group freq	Caldow	SA	13	(1958)	212
C_8H_7NO	o-Methylphenyl isocyanate	-	Sol	Group freq	Caldow	SA	13	(1958)	212
C_8H_7NO	p-Methylphenyl isocyanate	-	Sol	Group freq	Caldow	SA	13	(1958)	212

C_8H_7NO	Oxindole	-	Sol	Table, Major peaks	Witkop	JACS	72	(1950)	614
		-	S	Band freq	Bergmann	JACS	77	(1955)	1549
		1290-4000	Sol	H bond, Struct, Spec	Kellie	JCS	-	(1956)	3809
C_8H_7NOS	p-Methoxyphenyl isothiocyanate	2000-2300	Sol	Group freq	Caldow	SA	13	(1958)	212
		-	Sol	Vib freq, NCA	Rao	CS	27	(1958)	474
		600-4000	L	Spec	Ham	SA	16	(1960)	279
$C_8H_7NO_2$	Dioxindole	-	S	Band freq	Bergmann	JACS	77	(1955)	1549
$C_8H_7NO_2$	ω-Hydroxyiminoacetophenone	650-1740	Sol	IR freq shift	Bellamy	JCS	-	(1955)	4221
$C_8H_7NO_2$	2-Hydroxy-5-oxo-6,7-dihydro-1,5H-pyrindine	-	S	Band freq	Ramirey	JACS	77	(1955)	1035
$C_8H_7NO_2$	5-Hydroxyoxindole	1290-4000	Sol	Spec, Struct, H bond	Kellie	JCS	-	(1956)	3809
$C_8H_7NO_2$	O-Methoxyphenyl isocyanate	-	Sol	Group freq	Caldow	SA	13	(1958)	212
$C_8H_7NO_2$	O-Methoxy-p-cyanophenol	3500-3800	Sol	Hammett const, ν_{OH}	Puttnam	JCS	-	(1960)	5100
$C_8H_7NO_2$	Vanillonitrile	3μ	Sol	Freq, H bond	Flett	SA	10	(1958)	21
$C_8H_7NO_2S$	p-Cyanophenyl methyl sulfone	-	-	Substitution effect	Momose	CPBT	6	(1958)	412
$C_8H_7NO_3$	2-Aminotropone-5-carboxylic acid	745-3279	S	Table	Johns	JCS	-	(1955)	309
$C_8H_7NO_3$	m-Nitroacetophenone	$5-7\mu$	Sol	Band freq	Soloway	JACS	73	(1951)	5000
		1600-1800	Sol	Band freq	Fuson	JACS	76	(1954)	2526
		-	Sol	Band freq, I	Tanaka	JCP	24	(1956)	311
		-	Sol	Freq, H bond, I	Forbes	CJC	35	(1957)	488
		-	Sol	I	Jones	CJC	35	(1957)	504
		-	Sol	Substitution effect	Thompson	SA	9	(1957)	208
		700-1700	Sol	Substitution effect	Katritzky	JCS	-	(1959)	2058

$C_8H_7NO_3$	o-Nitroacetophenone	-	Sol	Freq, H bond, I	Forbes	CJC	35	(1957)	488
		-	Sol	I	Jones	CJC	35	(1957)	504
$C_8H_7NO_3$	p-Nitroacetophenone	5-7μ	S	Band freq	Soloway	JACS	73	(1951)	5000
		1600-1800	Sol	Band freq	Fuson	JACS	76	(1954)	2526
		-	Sol	Band freq, I	Tanaka	JCP	24	(1956)	311
		-	Sol	Freq, H bond, I	Forbes	CJC	35	(1957)	488
		-	Sol	I	Jones	CJC	35	(1957)	504
		700-1700	Sol	Freq, Assign	Katritzky	JCS	-	(1959)	2051
$C_8H_7NO_4$	2-Aminoisophthalic acid	-	-	Ident	Grundon	JACS	74	(1952)	2637
		-	-	Ident	Boekelheide	JACS	75	(1953)	2550
$C_8H_7NO_4$	Methyl m-nitrobenzoate	700-1700	Sol	Substitution effect	Katritzky	JCS	-	(1959)	2058
		-	Sol	Freq	Freeman	JACS	82	(1960)	2454
		800-1500	Sol	Group assign, Band study	Katritzky	SA	16	(1960)	954
		-	-	Assign, Band study	Katritzky	SA	16	(1960)	964
$C_8H_7NO_4$	Methyl o-nitrobenzoate	800-1600	-	Ext coeff, I	Katritzky	JCS	-	(1959)	3670
		800-1500	Sol	Group assign, Band study	Katritzky	SA	16	(1960)	954
		-	-	Assign, Band study	Katritzky	SA	16	(1960)	964
$C_8H_7NO_4$	Methyl p-nitrobenzoate	1300-1600	S,Sol	Struct	Kross	JACS	78	(1956)	4225
		-	G,L	Assign, Fermi resonance	Deschamps	BSCF	-	(1959)	88
		700-1700	Sol	Substitution effect	Katritzky	JCS	-	(1959)	2051
		-	-	Assign, Band study	Katritzky	SA	16	(1960)	964
		800-1500	Sol	Group assign, Band study	Katritzky	SA	16	(1960)	954
		650-900	L,Sol	Bending freq	Yoshida	CPBT	8	(1960)	389
$C_8H_7NO_4$	o-Nitrophenyl acetate	2-15μ	-	Absorption freq, Struct anal	Rasmussen	JACS	71	(1949)	1073
$C_8H_7NO_4$	p-Nitrophenyl acetate	700-1800	Sol	Struct freq	Short	JCS	-	(1952)	206
		-	Sol	freq	Freeman	JACS	82	(1960)	2454

$C_8H_7NO_4$	p-Nitrophenyl-acetic acid	-	Sol	Freq, Dissociation const	Goulden	SA	6	(1954)	129
		1300-1600	S,Sol	Struct	Kross	JACS	78	(1956)	4225
$C_8H_7NO_5$	5-Hydroxy-6-methyl-3,4-pyridinecarboxylic acid	-	-	Ident	Jones	JACS	73	(1951)	5610
$C_8H_7NO_5$	3-Methoxy-4-nitrobenzoic acid	-	-	Ident	MacMellan	JCS	-	(1952)	4019
$C_8H_7NO_5$	O-Nitromandelic acid	2-15μ	S	Ident	Meinwald	JACS	75	(1953)	485
$C_8H_7NO_5$	p-Nitrophenoxy-acetic acid	-	Sol	Freq, Dissociation const	Goulden	SA	6	(1954)	129
		-	Sol	H bond	Oki	BCSJ	33	(1960)	119
$C_8H_7NO_6$	4-Methyl-2,3,5-tricarboxypyrrole	-	Sol,S	Spec	Scrocco	AAN	20	(1956)	795
C_8H_7NS	Benzyl thiocyanate	600-2200	-	NCA	Lieber	SA	13	(1959)	296
C_8H_7NS	Benzyl isothiocyanate	600-4000	L	Spec	Ham	SA	16	(1960)	279
C_8H_7NS	2-Methylbenzothiazole	800-1725	Sol	Freq	O'Sullivan	JCS	-	(1960)	3278
C_8H_7NS	p-Methylphenyl isothiocyanate	-	Sol	NCA	Rao	CS	27	(1958)	474
C_8H_7NS	Thioindoxyl	700-4000	S,Sol	Struct, H bond, Assign	Holt	JCS	-	(1958)	1217
$C_8H_7NS_2$	2-Methylthiobenzothiazole	2800-3500	Sol	Spec, Struct, Group freq	Flett	JCS	-	(1953)	347
C_8H_7NSe	2-Methylbenzoselenazole	800-1725	Sol	Freq	O'Sullivan	JCS	-	(1960)	3278

$C_8H_7N_2O_2$	N-Phenylsydnone	2-15 μ	S	Spec	Earl	JCS	-	(1951)	2207
		-	-	Freq	Fugger	JACS	77	(1955)	1843
$C_8H_7N_3$	3-Aminocinnoline	3300-3500	Sol	Freq, FC	Short	JCS	-	(1956)	4191
$C_8H_7N_3$	4-Aminocinnoline	3300-3500	Sol	Freq, FC	Short	JCS	-	(1956)	4191
$C_8H_7N_3$	5-Aminocinnoline	3300-3500	Sol	Freq, FC	Short	JCS	-	(1956)	4191
$C_8H_7N_3$	6-Aminocinnoline	3300-3500	Sol	Freq, FC	Short	JCS	-	(1956)	4191
$C_8H_7N_3$	7-Aminocinnoline	3300-3500	Sol	Freq, FC	Short	JCS	-	(1956)	4191
$C_8H_7N_3$	8-Aminocinnoline	3300-3500	Sol	Freq, FC	Short	JCS	-	(1956)	4191
$C_8H_7N_3$	2-Aminoquinazoline	3300-3500	Sol	Freq, FC	Short	JCS	-	(1956)	4191
$C_8H_7N_3$	4-Aminoquinazoline	3300-3500	Sol	Freq, FC	Short	JCS	-	(1956)	4191
$C_8H_7N_3$	5-Aminoquinazoline	3300-3500	Sol	Freq, FC	Short	JCS	-	(1956)	4191
$C_8H_7N_3$	6-Aminoquinazoline	3300-3500	Sol	Freq, FC	Short	JCS	-	(1956)	4191
$C_8H_7N_3$	7-Aminoquinazoline	3300-3500	Sol	Freq, FC	Short	JCS	-	(1956)	4191
$C_8H_7N_3$	8-Aminoquinazoline	3300-3500	Sol	Freq, FC	Short	JCS	-	(1956)	4191
$C_8H_7N_3$	2,5-Dimethyl-3,4-dicyanopyrrole	500-4000	Sol	Spec, Struct, Freq	Eisner	JCS	-	(1958)	971
$C_8H_7N_3$	4-Phenyl-v-triazole	2-16 μ	-	Spec, Group freq	Hartzel	JACS	76	(1954)	667
$C_8H_7N_3O$	3-Amino-5-phenyl-1,2,4-oxadiazole	-	-	Ident	Adams	JOC	18	(1953)	934
$C_8H_7N_3O$	5-Hydroxy-1-phenyl-1,2,3-triazole	900-1310	S,Sol	Vib, Assign	Lieber	CJC	36	(1958)	1441

$C_8H_7N_3O$	5-Phenyl-1,2,4-Δ^4-triazolone	2-7μ	S	Spec, Struct	Mautner	JACS	77	(1955)	4076
$C_8H_7N_3O_6$	DNP-Glycine	625-5000	S	Spec, Ident	Friedberg	CJC	37	(1959)	1469
$C_8H_7N_4$	1-m-Chlorophenyl-5-methyltetrazole	8-14μ	S	Band assign	Roberts	JOC	24	(1959)	654
$C_8H_7N_4$	1-O-Chlorophenyl-5-methyltetrazole	8-14μ	S	Band assign	Roberts	JOC	24	(1959)	654
$C_8H_7N_4$	1-p-Chlorophenyl-5-methyltetrazole	8-14μ	S	Band assign	Roberts	JOC	24	(1959)	654
$C_8H_7N_4$	1-Methyl-5-m-chlorophenyltetrazole	8-14μ	S	Band assign	Roberts	JOC	24	(1959)	654
$C_8H_7N_4$	1-Methyl-5-O-chlorophenyltetrazole	8-14μ	S	Band assign	Roberts	JOC	24	(1959)	654
$C_8H_7N_4$	1-Methyl-5-p-chlorophenyltetrazole	8-14μ	S	Band assign	Roberts	JOC	24	(1959)	654
C_8H_8	Cyclooctatetraene	-	-	Ident	Cope	JACS	69	(1947)	976
		600-4000	L,G	Spec	Flett	N	159	(1947)	739
		-	-	IR freq	Lippincott	JCP	16	(1948)	548
		9-14μ	L	Spec	Friess	JACS	71	(1949)	4145
		2-15μ	L,Sol	Spec, Phy. properties	Eccleston	JACS	72	(1950)	3866
		-	-	Struct	Lippincott	N	166	(1950)	227
		-	-	Struct	Craig	CR	49	(1951)	103
		200-3500	L,G	Spec, I, Struct	Lippincott	JACS	73	(1951)	3370
		-	-	Thermo	Lippincott	JACS	73	(1951)	3889
		-	-	IR, Chem binding	Mecke	JCP	20	(1952)	1935
		-	-	Band freq, Struct	Person	JACS	74	(1952)	3437
		-	-	Band freq, Struct	Daasch	JACS	76	(1954)	3403
C_8H_8	1,3,7-Octatrien-5-yne	781-3103	L,Sol	Spec, Group freq, Assign	Georgieff	JACS	76	(1954)	5494
C_8H_8	Styrene	1-14μ	-	Spec, Absorption bands	Williams	JCP	4	(1936)	456

C_8H_8	Styrene	1-14μ	-	Spec	Stair	JRNB	15	(1935)	295
		-	-	Absorption bands	Williams	JCP	4	(1936)	460
		2.5-9μ	S	Spec, Freq assign	Williams	P	7	(1936)	399
		1000-2000	Sol	Spec	Muller	IEC	13	(1941)	667
		900-1900	-	Spec, Anal	Barnes	IEC	15	(1943)	83
		850-1950	-	Absorption freq, Spec	Barnes	IEC	15	(1943)	659
		500-2000	-	Spec	Thompson	PRS	184	(1945)	3
		600-1800	-	Spec	Thompson	TFS	41	(1945)	246
		-	-	Thermo, Vib assign	Pitzer	JACS	68	(1946)	2209
		700-1900	L	Spec	Bryant	JCS	-	(1949)	2389
		-	-	Thermo	Kilpatrick	JRNB	42	(1949)	225
		-	-	Anal	Hauser	JPCC	54	(1950)	256
		2-15μ	L	Spec	White	AC	22	(1950)	768
		1.1-1.25μ	L	Absorption coeff, Anal, Spec	Evans	AC	23	(1951)	1604
		800-1000	Sol	Spec	Lippincott	JACS	73	(1951)	3370
		5-6μ	-	Spec	Young	AC	23	(1951)	709
		-	-	Anal, Struct	Foster	JACS	75	(1953)	2910
		-	L	Anal, Ext coeff	Binder	AC	26	(1954)	1877
		9-15μ	-	Spec	Patterson	AC	26	(1954)	823
		-	-	Band freq	Reed	JCS	-	(1954)	1931
		5.70-5.9μ	Sol	Struct	Chang	JPC	60	(1956)	782
		-	Sol	Ext coeff	Goddu	AC	29	(1957)	1790
		-	Sol	Quant anal	Kiley	AC	29	(1957)	1553
		-	Sol	Spec, Group freq	Potts	SA	15	(1959)	679
		3-2μ	Sol	Struct, Reactivity	Kuwata	BCSJ	33	(1960)	1091
C_8H_8DNO	Acetanilide-d_1	750-5000	S,L	Spec	Abbott	PRS	234	(1956)	247
C_8H_8DNO	Acetanilide-N-d_1	1200-5000	S	Spec, Struct, Dichromism	Abbott	PRS	234	(1956)	247
$C_8H_8D_8O_2$	Caprylic acid-2,3,4,4,5,6,7,7-d_8	-	-	Spec	Buuhoi	BSCF	-	(1960)	1586
C_8H_8BrNO	m-Bromoacetanilide	700-4000	Sol	Substitution effect	Holt	JCS	-	(1958)	1217
		-	Sol	Freq	Freeman	JACS	82	(1960)	2454
C_8H_8BrNO	o-Bromoacetanilide	700-4000	Sol	Substitution effect	Holt	JCS	-	(1958)	1217

C_8H_8BrNO	p-Bromoacetanilide	1500-1750	S,Sol	Spec, Assing	Richards	JCS	-	(1947)	1248
		-	Sol	Band freq, Ext coeff, I	Russell	JCS	-	(1955)	483
		1600-1725	Sol	Freq	Thompson	SA	13	(1958)	236
		-	Sol	Freq	Freeman	JACS	82	(1960)	2454
C_8H_8BrNO	N-p-Bromophenyl-acetamide	3μ	Ba	Band study	Russell	SA	8	(1956)	138
C_8H_8BrNO	p-Bromo-N-methyl-benzamide	1600-3500	Sol	Freq	Thompson	SA	13	(1958)	236
$C_8H_8Br_2$	Cyclooctatetraene dibromide	$9\text{-}14\mu$	-	Spec	Friess	JACS	71	(1949)	4145
		$2\text{-}16\mu$	Sol	Spec	Cope	JACS	74	(1949)	168
$C_8H_8Br_2$	α,β-Dibromoethyl-benzene	-	Sol	Band fred	Potts	AC	27	(1955)	1027
$C_8H_8Br_2O_5$	exo-trans-4,5-dibromo-3,6-endoxo-tetra-hydrophthalic acid	-	S	Optical iso	Berson	JACS	76	(1954)	4060
C_8H_8ClNO	m-Chloroacetanilide	700-4000	Sol	Substitution effect	Holt	JCS	-	(1958)	1217
		-	Sol	Freq	Freeman	JACS	82	(1960)	2454
C_8H_8ClNO	o-Chloroacetanilide	700-4000	Sol	Substitution effect	Holt	JCS	-	(1958)	1217
C_8H_8ClNO	p-Chloroacetanilide	1500-1750	S,Sol	Spec, Assign	Richards	JCS	-	(1947)	1248
		1290-4000	Sol	Spec, Struct, H bond	Kellie	JCS	-	(1956)	3809
		3μ	Sol	Band study	Russell	SA	8	(1956)	138
		700-4000	Sol	Substitution effect	Holt	JCS	-	(1958)	1217
		1600-1720	Sol	Freq	Thompson	SA	13	(1958)	236
C_8H_8ClNO	N-5-Chlorosalicylidene-methylamine	-	Sol,L	H bond, Shift	Reeves	CJC	38	(1960)	1249
$C_8H_8ClNO_2$	p-Chloroacetamido-phenol	1800-1500	Sol	Freq	Kellie	JCS	-	(1956)	3809
$C_8H_8ClNO_3$	4-Formyl-3-chloro-								

$C_8H_8ClNO_3S$	4-Formyl-3-chloro-phenyl-4-methyl sulfone oxime	-	-	Substitution effect	Momose	CPBT	6	(1958)	412
$C_8H_8Cl_2$	Cyclooctatetraene dichloride	2-16 μ	Sol	Spec	Cope	JACS	74	(1952)	168
$C_8H_8Cl_2$	α,β-Dichloroethyl-benzene	-	Sol	Group freq	Potts	AC	27	(1955)	1027
$C_8H_8Cl_2$	1,6-Dichloro-2,4-octadiyne	-	L	Group freq, I	Allan	JCS	-	(1955)	1874
$C_8H_8Cl_2$	3,6-Dichloro-o-xylene	-	L,S	Band study	Boyars	JACS	75	(1958)	1989
$C_8H_8Cl_2$	1-Ethyl-2,3-dichloro-benzene	5-6 μ	-	Spec	Young	AC	23	(1951)	709
$C_8H_8Cl_2O$	2-Dichloromethyl-2-methylcyclohexa-3,5-dienone	5.7-6.2 μ	Sol	Spec	Bickel	JCS	-	(1953)	3211
$C_8H_8Cl_2O$	4-Dichloromethyl-4-methylcyclohexa-2,5-dienone	5.7-6.2 μ	Sol	Spec	Bickel	JCS	-	(1953)	3211
C_8H_8FNO	5-Fluoroacetanilide	700-4000	Sol	Freq, Assign	Holt	JCS	-	(1958)	1217
$C_8H_8F_6NO_2F$	Anilinium bistri-fluoromethyl-phosphinate	-	-	Freq	Emeleus	JCS	-	(1955)	563
C_8H_8INO	m-Iodoacetanilide	700-4000	Sol	Substitution effect	Holt	JCS	-	(1958)	1217
C_8H_8INO	o-Iodoacetanilide	700-4000	Sol	Substitution effect	Holt	JCS	-	(1958)	1217
$C_8H_8N_2$	m-Aminoaniline	700-1700	Sol	I, Substitution effect	Katritzky	JCS	-	(1959)	2058

$C_8H_8N_2$	1,6-Dicyano-2,4-hexadiene	-	-	Band freq	Kitson	AC	24	(1952)	334
$C_8H_8N_2$	2-Methylbenzimidazole	650-1000	Sol	Freq	Binder	JACS	81	(1959)	3608
		600-1700	S	Freq	O'Sullivan	JCS	-	(1960)	3278
$C_8H_8N_2$	5-Methylbenzimidazole	600-1700	S	Freq	O'Sullivan	JCS	-	(1960)	3278
$C_8H_8N_2$	Methylphenyl cyanamide	1050-2000	-	Spec	Barnes	IEC	15	(1943)	659
$C_8H_8N_2$	3,4,5,6-Tetrahydro-o-phthalodinitrile	-	Sol	Band freq, I	Felton	JCS	-	(1955)	2170
$C_8H_8N_2O$	4,6-Dimethylbenzfurazan	6-7μ	-	Spec, Freq	Gaughran	JACS	76	(1954)	2233
$C_8H_8N_2O$	2,5-Dimethyl-4-cyanopyrrole-3-aldehyde	5000-400	Sol	Spec, Freq, Struct	Eisner	JCS	-	(1958)	971
$C_8H_8N_2O_2$	4-Carbamidobenzaldehyde	-	Sol	Group & band freq	Pinchas	AC	27	(1955)	2
$C_8H_8N_2O_2$	4,6-Dimethylbenzfuroxan	6-7μ	-	Spec, Freq	Gaughran	JACS	76	(1954)	2233
$C_8H_8N_2O_2 \cdot HBr$	3,4-Dihydro-3-hydroxy-2H-pyrido[1,2-a]-pyrimidin-2-one hydrobromide	-	-	Band freq	Adams	JACS	74	(1952)	4906
$C_8H_8N_2O_2S_2$	Thiolutin	-	S	Band freq	Celrner	JACS	74	(1952)	6304
		2-16μ	S	Spec, Group freq	Celrner	JACS	77	(1955)	2861
$C_8H_8N_2O_3$	m-Nitroacetanilide	700-1800	L,S	Struct freq, I	Randle	JCS	-	(1952)	4153
		1290-4000	Sol	Spec, Struct, H bond	Kellie	JCS	-	(1956)	3809
		700-4000	Sol	Substitution effect	Holt	JCS	-	(1958)	1217
		-	Sol	Freq	Freeman	JACS	82	(1960)	2454

$C_8H_8N_2O_3$	o-Nitroacetanilide	2700-3700	Sol	Spec, H bond	Buswell	JACS	61	(1939)	3252
		700-1800	L,S	Struct freq, I	Randle	JCS	-	(1952)	4153
		3600-1250	Sol	H bond, Freq, Assign	Dyall	AJC	11	(1958)	513
		3000-3600	Sol	Freq	Hambly	AJC	11	(1958)	529
		700-4000	Sol	Substitution effect	Holt	JCS	-	(1958)	1217
		800-1600	Sol	I, Ext coeff	Katritzky	JCS	-	(1959)	3670
$C_8H_8N_2O_3$	p-Nitroacetanilide	1500-1750	S,Sol	Spec, Assign	Richards	JCS	-	(1947)	1248
		700-1800	L,S	Struct freq, I	Randle	JCS	-	(1952)	4153
		1300-1600	Sol,S	Freq, Struct	Kross	JACS	78	(1956)	4225
		3600-1250	Sol	Freq, H bond, Assign	Dyall	AJC	11	(1958)	513
		3000-3600	Sol	Freq	Hambly	AJC	11	(1958)	529
		1600-1725	Sol	Freq	Thompson	SA	13	(1958)	236
		-	Sol	Freq	Freeman	JACS	82	(1960)	2454
$C_8H_8N_2O_3$	m-Nitro-N-methyl-benzamide	1600-3500	Sol	Freq	Thompson	SA	13	(1958)	236
$C_8H_8N_2O_3$	p-Nitro-N-methyl-benzamide	1600-3500	Sol	Freq	Thompson	SA	13	(1958)	236
$C_8H_8N_2O_3$	p-Nitrophenyl-acetamide	1800-1550	Sol	Freq	Kellie	JCS	-	(1956)	3809
$C_8H_8N_2O_3$	N-Nitrosophenyl-glycine	2-15 μ	S	Spec	Earl	JCS	-	(1951)	2207
$C_8H_8N_2O_4$	p-Nitrophenyl-glycine	-	S,Sol	Struct	Kross	JACS	78	(1956)	4225
$C_8H_8N_2O_4$	Pyrazine-2,3-di-carboxylic acid dimethyl ester	1500-2000	Sol	Spec, Group freq	Solomons	JACS	75	(1953)	679
$C_8H_8N_2O_5$	2,6-Dinitro-3,4-xylenol	600-4000	S	Spec, H bond, Band	Pickering	JACS	80	(1958)	680

$C_8H_8N_2O_5$	5-Methoxy-3-nitro-anthranilic acid	-	-	Ident	Macmillan	JCS	-	(1952)	4019
$C_8H_8N_2O_8$	2,1'-Dinitro-2,2'-dicarboxy-1,1'-bicyclopropane	-	-	IR	Boer	RTC	79	(1960)	231
$C_8H_8N_4$	5-Anilino-1,2,3-triazole	900-1310	S	Assign, Vib	Lieber	CJC	36	(1958)	1441
$C_8H_8N_4OS$	5(o-Methoxyphenyl-amino)-1,2,3,4-thiatrizole	700-1700	S	Spec, Struct, Assign, Taut	Lieber	CJC	36	(1958)	801
$C_8H_8N_4OS$	5(p-Methoxyphenyl-amino)-1,2,3,4-thiatrizole	700-1700	S	Spec, Struct, Assign, Taut	Lieber	CJC	36	(1958)	801
$C_8H_8N_4OS$	1-o-Methoxyphenyl-tetrazoline-5-thione	700-1700	S	Spec, Struct, Assign, Taut	Lieber	CJC	36	(1958)	801
$C_8H_8N_4OS$	1-p-Methoxyphenyl-tetrazoline-5-thione	700-1700	S	Spec, Struct, Assign, Taut	Lieber	CJC	36	(1958)	801
$C_8H_8N_4O_2$	1-Phenyl-1-azido-2-nitroethane	2-16μ	Sol	Spec, Band freq	Boyer	JACS	73	(1951)	5248
$C_8H_8N_4O_3$	O-Nitrobenzaldehyde semicarbazone	700-3500	S	Ident, Assign	Davison	JCS	-	(1955)	3389
$C_8H_8N_4O_4$	Acetaldehyde-2,4-dinitrophenyl-hydrazone (Form I)	-	S	Band freq	Newman	JACS	75	(1953)	4740
		6-15μ	S	Spec, Table	Ross	AC	25	(1953)	1288
		1300-3400	S	Spec, Struct	Isherwood	N	175	(1955)	419
		2-15μ	S	Spec, Ident	Jones	AC	28	(1956)	191

$C_8H_8N_4O_4$	Acetaldehyde-2,4-dinitrophenylhydrazone (Form II)	6-15μ	S	Spec, Table	Ross	AC	25 (1953) 1288
		-	-	Ident	Hochstein	JACS	77 (1955) 3353
$C_8H_8N_4O_4$	2-Carboethoxycyanomethyl-4,6-dihydroxy-5-triazine	2-15μ	S	Assign	Reimschuessel	JACS	82 (1960) 3756
$C_8H_8N_4S$	5-Benzylamino-1,2,3,4-thiatrizole	700-1700	S	Spec, Struct, Assign, Taut	Lieber	CJC	36 (1958) 801
$C_8H_8N_4S$	1-Benzyltetrazoline-5-thione	700-1700	S	Spec, Struct, Assign, Taut	Lieber	CJC	36 (1958) 801
$C_8H_8N_4S$	5(O-Methylphenylamino)-1,2,3,4-thiatrizole	700-1700	S	Spec, Struct, Assign, Taut	Lieber	CJC	36 (1958) 801
$C_8H_8N_4S$	5(p-Methylphenylamino)-1,2,3,4-thiatrizole	700-1700	S	Spec, Struct, Assign, Taut	Lieber	CJC	36 (1958) 801
$C_8H_8N_4S$	1-p-Methylphenyltetrazoline-5-thione	700-1700	S	Spec, Struct, Assign, Taut	Lieber	CJC	36 (1958) 801
C_8H_8O	Acetophenone	7-2.5μ	L	Band study	Ellis	JACS	51 (1929) 1384
		5.5-6.5μ	L	Spec, H bond	Gordy	JCP	8 (1940) 516
		1050-1800	-	Spec, Absorption freq	Barnes	IEC	15 (1943) 659
		-	-	FC	Linnett	TFS	41 (1945) 223
		500-1750	L	Assign	Thompson	JCS	- (1945) 640
		-	-	FC	Walsh	TFS	43 (1947) 158
		-	Sol	Band freq	Flett	JCS	- (1948) 1441
		-	-	Absorption freq, Struct anal	Rasmussen	JACS	71 (1949) 1068
		-	Sol	Band vib, I	Richards	TFS	45 (1949) 879
		1600-3700	Sol	Spec	Hunsberger	JACS	72 (1950) 5626
		1800-1650	Sol	Ext coeff	Cross	TFS	47 (1951) 354
		-	L	Optical density	Cram	JACS	74 (1952) 2137

		5.93μ	-	Band freq	Woodward	JACS	74	(1952)	3458
		1685-1692	Sol	Band freq, I	Barrow	JCP	21	(1953)	2008
		1550-4000	S	Band freq	Hergert	JACS	75	(1953)	1622
		-	-	Anal	Spivy	JCS	-	(1953)	1647
		1600-1800	Sol	Band freq	Fuson	JACS	76	(1954)	2526
		-	Sol	Solvent effect, I	Hirota	BCSJ	27	(1954)	295
		650-1740	Sol	IR freq shift	Bellamy	JCS	-	(1955)	4221
		625-900	-	Substituion effect	Margoshes	SA	7	(1955)	14
		-	L	Band freq	Schubert	JACS	77	(1955)	4172
		12-15μ	L,Sol	Bending freq	Kross	JACS	78	(1956)	1332
		-	Sol	Band freq, I	Tanaka	JCP	24	(1956)	311
		-	G,L, Sol,S	Carbonyl freq	Bellamy	JCS	-	(1957)	4294
		-	Sol	Freq, H bond, I	Forbes	CJC	35	(1957)	488
		-	Sol	Freq, I	Jones	CJC	35	(1957)	504
		-	G,Sol	FC	O'Sullivan	JCS	-	(1957)	4144
		-	-	Freq, FC	Rao	CS	26	(1957)	375
		-	Sol	Substitution effect	Thompson	SA	9	(1957)	208
		-	-	Freq	Bottreau	JPR	19	(1958)	552
		-	Sol	Substitution effect	Jones	CJC	36	(1958)	1020
		-	Sol	Assign, Band study	Katritzky	JCS	-	(1958)	2182
		4000-600	Sol	Group freq	Katritzky	JCS	-	(1958)	4155
		-	Sol	Freq, Struct	Mirone	AAN	24	(1958)	54
		-	Sol	Freq, I	Thompson	SA	13	(1958)	236
		1650-1850	Sol,L, G	Solvent effect, Freq	Bellamy	TFS	55	(1959)	14
		-	Sol	Assign, Shift	Flaig	A	626	(1959)	215
		-	Sol	Solvent effect, Freq	Ito	JCP	31	(1959)	1694
		-	Sol	I, Freq	Mirone	ANCR	49	(1959)	52
		-	Sol	Band study	Morcillo	SA	15	(1959)	497
		-	Sol	Band freq	Baker	JACS	82	(1960)	1923
		-	Sol	Freq	Brook	JACS	82	(1960)	5102
		4000-600	L	Spec, Group freq	Hersert	JOC	25	(1960)	405
C_8H_8O	Cyclooctatetraene oxide	9-14μ	-	Spec	Friess	JACS	71	(1949)	4145

C_8H_8O	1,3,5-Cyclooctatrien-7-one	2-16 μ	Sol	Spec, Band freq	Cope	JACS	73 (1951) 4158
		5-6 μ	S	Band freq	Cope	JACS	76 (1954) 1096
C_8H_8O	2,3-Dihydrobenzofuran	2-16 μ	L	Spec, Anal	Entel	JACS	73 (1951) 4152
C_8H_8O	Phenylacetaldehyde	-	-	Ident	Cope	JACS	76 (1954) 1100
C_8H_8O	Phenyl vinyl ether	600-4000	G,Sol	Spec, Freq	Mikawa	BCSJ	29 (1956) 110
		-	Sol	Group freq	Potts	SA	15 (1959) 679
C_8H_8O	Phthalan	2-16 μ	-	Spec	Entel	JACS	74 (1952) 441
		11 μ	S,Sol	Spec, Band assign	Allison	JCS	- (1958) 4311
C_8H_8O	Styrene oxide	-	-	Struct	Field	JCP	18 (1950) 1298
		2604-2689	Sol	H bond	Searles	JACS	73 (1951) 3704
		2-15 μ	L	Spec, Struct anal	Shreve	AC	23 (1951) 277
		2-15 μ	L	Spec, Group freq	Patterson	AC	26 (1954) 823
		-	Sol	Group freq	Potts	AC	27 (1955) 1027
		1-3.1 μ	Sol	Teriminal epoxides	Goddu	AC	30 (1958) 2013
C_8H_8O	O-Tolualdehyde	-	Sol	Group & band freq	Pinchas	AC	27 (1955) 2
		-	Sol	Freq , H bond, I	Forbes	CJC	35 (1957) 288
		-	-	Steric hindrance	Pinchas	AC	29 (1957) 334
C_8H_8O	m-Tolualdehyde	1050-1800	-	Absorption freq, Spec	Barnes	IEC	15 (1943) 659
		2.21 μ	Sol	Anal	Powers	AC	32 (1960) 1287
C_8H_8O	p-Tolualdehyde	7-2.5 μ	L	Band study	Ellis	JACS	51 (1929) 1384
		-	Sol	Freq, H bond, I	Forbes	CJC	35 (1957) 488
		2.21 μ	Sol	Anal	Powers	AC	32 (1960) 1287
C_8H_8OS	Benzyl formyl sulphide	25-16 μ	Sol	Chemical struct	Nyquist	SA	15 (1959) 514
C_8H_8OS	Phenylthio acetate	2.5-16 μ	Sol	Structure effect on freq	Nyquist	SA	15 (1959) 514
		-	Sol	Band freq	Baker	JACS	82 (1960) 1923

C_8H_8OS	Phenylthioacetic acid	5.5-6.5μ	Sol	Band study, I	Sawicki	AC	31	(1959)	523
$C_8H_8O_2$	Bicyclo-[2:2:1]-hepta-2,5-diene-2-carboxylic acid	680-1000	Sol	Struct	Jones	JCS	-	(1956)	4073
$C_8H_8O_2$	α-Cycloheptatriene-carboxylic acid	672-2632	S	Table	Johnson	JCS	-	(1955)	1622
$C_8H_8O_2$	β-Cycloheptatriene-carboxylic acid	658-2653	S	Table	Johnson	JCS	-	(1955)	1622
$C_8H_8O_2$	2,3-Dimethyl-p-benzoquinone	2-15μ	S,Sol	Freq position	Yates	JACS	78	(1956)	650
		-	Sol	Assign, Shift	Flaig	A	626	(1959)	215
$C_8H_8O_2$	2,5-Dimethyl-p-benzoquinone	5-15μ	S,Sol	Freq position	Yates	JACS	78	(1956)	650
		-	Sol	Assign, Shift	Flaig	A	626	(1959)	215
$C_8H_8O_2$	2,6-Dimethyl-p-benzoquinone	-	Sol	Struct freq	Cosgrove	JCS	-	(1952)	4821
		5-15μ	S,Sol	Freq position	Yates	JACS	78	(1956)	650
		-	Sol	Assign, Shift	Flaig	A	626	(1959)	215
$C_8H_8O_2$	Ethylbenzoquinone	-	-	Substitution effect	Flagg	NWS	43	(1956)	467
		5-15μ	Sol	Substitution effect	Yates	JACS	78	(1956)	650
$C_8H_8O_2$	p-Homosalicylaldehyde	-	Sol	H bond	Hilbert	JACS	58	(1936)	548
$C_8H_8O_2$	m-Hydroxyacetophenone	1684	Sol	Freq, I	Barrow	JCP	21	(1953)	2008
$C_8H_8O_2$	o-Hydroxyacetophenone	-	Sol	H bond	Hilbert	JACS	58	(1936)	548
		5.5-6.5μ	L	Spec, H bond	Gordy	JCP	8	(1940)	516
		1600-3700	Sol	Spec, Chelation study	Hunsberger	JACS	72	(1950)	5626
		1550-4000	L	Band freq	Hergert	JACS	75	(1953)	1622
		-	-	Absorption study	Snyder	JACS	76	(1954)	4601
		3μ	Sol	H bond, Freq	Flett	SA	10	(1958)	21
		-	-	Ext coeff, Band study	Katritzky	JCS	-	(1959)	3670

$C_8H_8O_2$	p-Hydroxyaceto-phenone	6900-7200	Sol	Spec, Group anal	Wulf	JACS	57	(1935)	1464
		5-7μ	S	Band freq	Soloway	JACS	73	(1951)	5000
		1550-4000	S	Band freq, H bond	Hergert	JACS	75	(1953)	1622
		1600-1800	Sol	Band freq	Fuson	JACS	76	(1954)	2526
		700-1000	S,Sol	Bending freq	Bellamy	JCS	-	(1955)	2818
		-	Sol	Freq	Bavin	CJC	35	(1957)	1555
		4000-600	S,Sol	Spec, Group freq	Herzert	JOC	25	(1960)	405
$C_8H_8O_2$	ω-Hydroxyaceto-phenone	-	Sol	Substitution effect	Jones	CJC	36	(1958)	1020
$C_8H_8O_2$	o-Methoxybenzal-dehyde	-	Sol	Group & band freq, Ext coeff	Pinchas	AC	27	(1955)	2
		650-4000	Sol	Spec, H bond, Freq	Heinert	JACS	81	(1959)	3933
		800-1600	-	Band study, Ext coeff	Katritzky	JCS	-	(1959)	3670
		2.21μ	Sol	Anal	Powers	AC	32	(1960)	1287
$C_8H_8O_2$	p-Methoxybenzal-dehyde	-	Sol	Group & band freq, Ext coeff	Pinchas	AC	27	(1955)	2
		2724-2835	Sol	Band freq, H bond	Pinchas	AC	29	(1957)	334
		-	Sol	Substitution effect	Thompson	SA	9	(1957)	208
		2.21μ	Sol	Anal	Powers	AC	32	(1960)	1287
$C_8H_8O_2$	Methyl benzoate	1-2.5μ	L	Spec	Smith	JACS	48	(1926)	1512
		5.5-6.5μ	L	Spec, H bond	Gordy	JCP	8	(1940)	516
		-	-	FC	Linnett	TFS	41	(1945)	223
		-	Sol	Band freq	Flett	JCS	-	(1948)	1441
		2-15μ	-	Absorption freq, Struct anal	Rasmussen	JACS	71	(1949)	1073
		1600-3700	Sol	Spec, Chelation study	Hunsberger	JACS	72	(1950)	5626
		-	L	Band freq, Taut	Grove	JCS	-	(1951)	877
		5.81μ	-	Band freq	Woodward	JACS	74	(1952)	3458
		650-1740	Sol	IR freq shift	Bellamy	JCS	-	(1955)	4221
		1500-1700	Sol	Group freq	Briggs	AC	29	(1957)	904
		-	Sol	Carbonyl & K-band freq	Exner	CIL	-	(1958)	1174
		-	-	Group assign	Josien	CPR	246	(1958)	1992
		-	Sol	Assign, Band study	Katritzky	JCS	-	(1958)	2182

		4000-600	Sol	Group freq	Katritzky	JCS	-	(1958)	4155
		-	Sol	Freq, I	Thompson	SA	13	(1958)	236
		-	Sol	Assign, Fermi resonance	Deschamps	BSCF	-	(1959)	88
		-	Sol	Freq	Horak	TEL	3	(1959)	19
		-	Sol	Band freq	Baker	JACS	82	(1960)	1923
		600-900	L,Sol	Bending freq	Yoshida	CPBT	8	(1960)	389
$C_8H_8O_2$	Methyl 2,4-hepta-diynoate	-	L	Group freq, I	Allan	JCS	-	(1955)	1874
$C_8H_8O_2$	Methyl 2,6-hepta-diynoate	-	L	Group freq, I	Allan	JCS	-	(1955)	1874
$C_8H_8O_2$	m-Methyltropolone	1250-1800	Sol	Spec, Struct	Scott	JACS	72	(1950)	240
		600-3400	S,Sol	Spec, H bond	Kuratani	BCSJ	25	(1952)	250
		-	Sol	Band freq	Bryant	JOC	19	(1954)	1889
$C_8H_8O_2$	o-Methyltropolone	600-3400	S,Sol	Spec, H bond	Kuratani	BCSJ	25	(1952)	250
		-	Sol	Band freq	Bryant	JOC	19	(1954)	1889
$C_8H_8O_2$	p-Methyltropolone	600-3400	Sol,S	Spec, H bond	Kuratani	BCSJ	25	(1952)	250
$C_8H_8O_2$	Phenyl acetate	2-15μ	-	Absorption freq, Struct anal	Rasmussen	JACS	71	(1949)	1073
		1700-1800	Sol	Struct freq	Short	JCS	-	(1952)	206
		1700-1780	Sol	Band freq, I	Barrow	JCP	21	(1953)	2008
		-	Sol	I, Solvent effect	Hirota	BCSJ	27	(1954)	295
		-	Sol	Anal	DeTar	JACS	77	(1955)	1745
		625-900	-	Substitution effect	Margoshes	SA	7	(1955)	14
		12-15μ	L	Bending freq	Kross	JACS	78	(1956)	1332
		-	Sol	Freq, I	Thompson	SA	13	(1958)	236
		-	Sol	Freq	Horak	TEL	3	(1953)	19
		-	-	Bending freq, Assing	Kakiyuchi	NKZ	80	(1959)	28
		-	Sol	Band freq	Baker	JACS	82	(1960)	1923
		-	Sol	Freq	Freeman	JACS	82	(1960)	2454
$C_8H_8O_2$	Phenylacetic acid	-	Sol	Band freq, I	Richards	TFS	45	(1949)	874
		650-3500	S	Spec, H bond, Struct	Davies	JCS	-	(1951)	2858

		700-4000	S,L, Sol	Table, Ext coeff	Flett	JCS	-	(1951)	962
		-	S	Spec, Stretch freq	Weigl	AC	24	(1952)	1483
		-	-	Spec, Anal	Trenner	APS	7	(1953)	166
		-	Sol	Dissociation const, Freq	Goulden	SA	6	(1954)	129
		-	Sol	Freq	Bavin	CJC	35	(1957)	1555
		-	Sol	I, Band study	Wenograd	JACS	79	(1957)	5844
		680-2500	-	Spec	Hadzi	NC	11	(1959)	715
$C_8H_8O_2$	m-Toluic acid	1050-1800	-	Spec, Absorption freq	Barnes	IEC	15	(1943)	659
		-	-	Absorption	Bomstein	AC	25	(1953)	512
		5.5-6.5μ	Sol	Ident, Band study	Sawicki	AC	31	(1959)	523
		-	Sol	Spec, Freq	Forbers	CJC	38	(1960)	728
$C_8H_8O_2$	o-Toluic acid	1050-1750	-	Spec, Absorption freq	Barnes	IEC	15	(1943)	659
		-	-	Absorption	Bomstein	AC	25	(1953)	512
		3-6μ	Sol	I, Band study	Wenograd	JACS	79	(1957)	5844
		5.5-6.5μ	Sol	Ident, Freq	Sawicki	AC	31	(1959)	523
		-	Sol	Spec, Freq	Forbers	CJC	38	(1960)	728
$C_8H_8O_2$	p-Toluic acid	1050-1800	-	Spec, Absorption freq	Barnes	IEC	15	(1943)	659
		1700-3500	Sol	Band freq, Chem properties	Flett	TFS	44	(1948)	767
		-	-	Absorption	Bomstein	AC	25	(1953)	512
		12-15μ	L	Bending freq	Kross	JACS	78	(1956)	1332
		5.5-6.5μ	Sol	Ident, Freq	Sawicki	AC	31	(1959)	523
		-	Sol	Spec, Freq	Forbers	CJC	38	(1960)	728
		650-900	L,Sol	Bending freq	Yoshida	CPBT	8	(1960)	389
$C_8H_8O_2$	Tropolone methyl ether	770-4000	L	Spec, Struct	Doering	JACS	73	(1951)	828
		600-3400	Sol	Spec, H bond	Kuratani	BCSJ	25	(1952)	250
		-	Sol	Band freq	Bryant	JOC	19	(1954)	1889
		-	-	Band freq	Pauson	CR	55	(1955)	9
$C_8H_8O_2S$	2-Hydroxybenzo-1,4-oxathiene	-	-	Struct	Parham	JACS	76	(1954)	1068

$C_8H_8O_2S$	Methylthiobenzoate	-	Sol	Band freq	Baker	JACS	82	(1960)	1923
$C_8H_8O_2S$	Phenyl vinyl sulfone	6.15-15.6μ	L,Sol	Table, Band freq, I	Price	JACS	75	(1953)	4747
$C_8H_8O_2S$	Methyl β-2′-thienyl acrylate	800-2000	L	Band I	Katritzky	JCS	-	(1959)	3500
		800-1500	Sol	Band study, Assign	Katritzky	SA	16	(1960)	954
		-	-	Band study, Assign	Katritzky	SA	16	(1960)	964
$C_8H_8O_3$	4-Acetylcatechol	3μ	Sol	Stretch freq, Hammett const	Ingraham	JACS	74	(1952)	2297
$C_8H_8O_3$	2,3-Dihydroxyacetophenone	-	L	H bond, Freq, Struct	Awad	JACS	80	(1958)	6057
$C_8H_8O_3$	2,4-Dihydroxyacetophenone	1550-4000	S	Band freq	Hergert	JACS	75	(1953)	1622
$C_8H_8O_3$	2,3-Dimethyl-5-hydroxy-1,4-benzoquinone	5-15μ	S	Substitution effect	Yates	JACS	78	(1956)	650
$C_8H_8O_3$	2,5-Dimethyl-3-hydroxy-1,4-benzoquinone	5-15μ	S	Substitution effect	Yates	JACS	78	(1956)	650
$C_8H_8O_3$	2-Hydroxy-3,5-dimethyl-p-benzoquinone	-	Sol	Assign, Shift	Flaig	A	626	(1959)	215
$C_8H_8O_3$	2-Hydroxy-3,6-dimethyl-p-benzoquinone	-	Sol	Assign, Shift	Flaig	A	626	(1959)	215
$C_8H_8O_3$	2-Hydroxy-3-methoxybenzaldehyde	-	Sol	Chelate study	Bellamy	JCS	-	(1954)	4487
		-	Sol	Group & band study	Pinchas	AC	27	(1955)	2
		900-1500	-	Spec, H bond	Lindberg	SK	32B	(1959)	193
$C_8H_8O_3$	4-Hydroxy-3-methoxybenzaldehyde	2-15μ	S,Sol	Group freq	Briggs	AC	29	(1957)	904
		3μ	Sol	Freq, H bond	Flett	SA	10	(1958)	21
		4000-600	S	Spec, Freq	Herzert	JOC	25	(1960)	405
		3500-3800	Sol	Freq, Hammett const	Puttnam	JCS	-	(1960)	5100
$C_8H_8O_3$	m-Hydroxyphenyl	-	Sol	Freq	Freeman	JACS	[illegible]	(1960)	[illegible]

$C_8H_8O_3$	m-Hydroxyphenyl acetate	-	Sol	Freq	Freeman	JACS	82	(1960)	2454
$C_8H_8O_3$	p-Hydroxyphenyl acetate	-	Sol	Freq	Freeman	JACS	82	(1960)	2454
$C_8H_8O_3$	DL-α-Hydroxyphenyl-acetic acid	2-15 μ	Sol	Spec	Ard	AC	23	(1951)	133
		700-4000	L,S	Table, Association	Flett	JCS	-	(1951)	962
$C_8H_8O_3$	m-Methoxybenzoic acid	-	Sol	Spec, Freq	Forbers	CJC	38	(1960)	728
$C_8H_8O_3$	o-Methoxybenzoic acid	-	-	Band freq, I	Hales	JCS	-	(1954)	3146
		-	Sol	Band freq	Davies	JCS	-	(1955)	132
		-	Sol	Spec, Freq	Forbers	CJC	38	(1960)	728
$C_8H_8O_3$	p-Methoxybenzoic acid	1700-3500	Sol	Band freq, Chem properties	Flett	TFS	44	(1948)	767
		700-4000	S,Sol	Table, Association, Ext coeff	Flett	JCS	-	(1951)	962
		-	Sol	Freq, Dissociation const	Goulden	SA	6	(1954)	129
		-	Sol	Spec, Freq	Forbers	CJC	38	(1960)	728
		650-900	L,Sol	Bending freq	Yoshida	CPBT	8	(1960)	389
$C_8H_8O_3$	1-Methoxy-2,3-methylenedioxy-benzene	700-5000	Sol	Group freq	Briggs	AC.	29	(1957)	904
$C_8H_8O_3$	2-Methoxy-3-methyl-p-benzoquinone	-	Sol	Assign, Shifts discuss	Flaig	A	626	(1959)	215
$C_8H_8O_3$	2-Methoxy-5-methyl-p-benzoquinone	2-12 μ	Sol	Synthesis	Woodward	JACS	74	(1952)	4223
		5-15 μ	S,Sol	Substitution effect	Yates	JACS	78	(1956)	650
		-	Sol	Assign, Shifts discussed	Flaig	A	626	(1959)	215
$C_8H_8O_3$	2-Methoxy-6-methyl-p-benzoquinone	-	Sol	Assign, Shifts discussed	Flaig	A	626	(1959)	215

$C_8H_8O_3$	5-Methoxy-2-methyl-benzoquinone	5-15μ	S,Sol	Substitution effect	Yates	JACS	78	(1956)	650
$C_8H_8O_3$	Methylβ(-2'-furyl) acrylate	800-1700	Sol	Freq assign	Katritzky	JCS	-	(1959)	657
		800-1500	Sol	Group assign	Katritzky	SA	16	(1960)	954
		-	-	Band study, Assign	Katritzky	SA	16	(1960)	964
$C_8H_8O_3$	Methyl p-hydroxybenzoate	3μ	Sol	Freq, Hammett const	Ingraham	JACS	74	(1952)	2297
		-	Sol	H bond	Tsuboi	BCSJ	25	(1952)	60
		-	Sol	Band freq	Smith	JCS	-	(1955)	2347
		-	Sol	Freq	Bavin	CJC	35	(1957)	1555
		-	Sol	Freq, Hammett const	Baker	JPC	62	(1958)	744
		-	Sol	Substitution effect	Stone	SA	10	(1958)	17
		3500-3800	Sol	Freq, Hammett const	Puttnam	JCS	-	(1960)	5100
		650-900	L,Sol	Freq	Yoshida	CPBT	-	(1960)	389
$C_8H_8O_3$	Methyl o-hydroxybenzoate	800-1500	Sol	Assign	Katritzky	SA	16	(1960)	954
		-	-	Assign	Katritzky	SA	16	(1960)	964
$C_8H_8O_3$	Methyl phenyl-carbonate	-	-	Band freq	Hales	JCS	-	(1954)	3145
		-	L	Freq, Struct	Hales	JCS	-	(1957)	618
$C_8H_8O_3$	Methyl salicylate	2400-4000	-	Spec, H bond	Barnes	JCP	4	(1936)	722
		-	Sol	H bond	Hilbert	JACS	58	(1936)	548
		2.6-3.2μ	Sol	Spec, H bond	Gordy	JCP	7	(1939)	167
		2.6-3.8μ	Sol	Spec, H bond	Fox	TFS	36	(1940)	897
		5.5-6.5μ	L	Spec, H bond	Gordy	JCP	8	(1940)	516
		-	-	Band freq	Flett	JCS	-	(1948)	1441
		-	Sol	Absorption band freq	Hampton	AC	21	(1949)	914
		1600-3700	Sol	Spec, Chelation study	Hunsberger	JACS	72	(1950)	5626
		-	Sol	Band freq	Amstutz	JACS	73	(1951)	1220
		-	L,Sol	Group freq	Duncanson	JCS	-	(1953)	1331
		-	Sol	Chelation study	Bellamy	JCS	-	(1954)	4487
		-	-	Band freq, I	Hales	JCS	-	(1954)	3145
		3μ	Sol	Band freq, I	Tsubomura	JCP	24	(1956)	927
		700-3100	L	Spec	Yamada	BCSJ	32	(1959)	1051
		800-1500	Sol	Band study, Group assign	Katritzky	SA	16	(1960)	954
		-	S	Band study, Assign	Katritzky	SA	16	(1960)	964
		-	Sol	Chem shift, H bond	Reeves	CJC	38	(1960)	1249

$C_8H_8O_3$	Phenoxyacetic acid	700-4000	S,L	Table, Band freq	Flett	JCS	-	(1951)	962
		688-2866	S	Table, Band freq	Bartels	JCS	-	(1952)	4461
		-	Sol	Freq, Dissociation	Goulden	SA	6	(1954)	129
		-	Sol	H bond	Oki	BCSJ	33	(1960)	119
$C_8H_8O_3$	Piperonyl alcohol	700-5000	S,Sol	Group freq	Briggs	AC	29	(1957)	904
$C_8H_8O_4$	Bicyclo[3.1.0] hex-2-ene-6,6-dicarboxylic acid 6:2-γ-lactone	-	-	Group freq, Struct	Kierstead	JCS	-	(1953)	1803
$C_8H_8O_4$	2,5-Dimethoxy-1,4-benzoquinone	-	S	Band freq	Bulock	JCS	-	(1955)	575
$C_8H_8O_4$	2,6-Dimethoxy-1,4-benzoquinone	-	S	Band freq	Bulock	JCS	-	(1955)	575
		2200-8000	Sol	Band study	Buckley	JCS	-	(1957)	4891
$C_8H_8O_4$	3,6-Dimethoxy-1,4-benzoquinone	2200-8000	Sol	Band study	Buckley	JCS	-	(1957)	4891
$C_8H_8O_4$	Vanillic acid	-	-	Ident	Keepchan	JACS	75	(1953)	1025
		4000-600	S	Spec, Freq	Herzert	JOC	25	(1960)	405
$C_8H_8O_5$	6-Acetylkojic acid	-	S	Group freq	Woods	JACS	75	(1953)	3608
$C_8H_8O_8$	1,2,3,4-Cyclobutanetetracarboxylic acid	2-13 μ	S	Spec, Band freq, Struct	Reid	JACS	73	(1951)	1985
C_8H_8S	Phenyl vinyl sulfide	5.8-14.5 μ	L,Sol	Table, Band freq, I	Price	JACS	75	(1953)	4747
C_8H_9DO	β-Phenylethanol-α-d_1	8-13 μ	-	Spec	Eliel	SA	10	(1958)	423
C_8H_9Br	α-Bromoethylbenzene	-	Sol	Ident	Overberger	JACS	75	(1953)	3186
		-	Sol	Freq	Potts	AC	27	(1955)	1027
C_8H_9Br	β-Phenylethyl bromide	13.5-19 μ	L	Spec	Mortimer	JACS	69	(1947)	822
		-	Sol	Freq	Potts	AC	27	(1955)	1027

$C_8H_9BrN_2O_2$	N-(5-Bromo-2-pyridyl)-β-alanine	3.17-15.5μ	S	Table, Group freq	Hurd	JACS	77	(1955)	117
C_8H_9BrO	1(4-Bromophenyl)-ethanol	-	-	Anal, Band freq	Fuchs	JACS	76	(1954)	1631
C_8H_9BrO	2(4-Bromophenyl)-ethanol	-	-	Anal, Band freq	Fuchs	JACS	76	(1954)	1631
C_8H_9BrO	α-Hydroxy-β-bromo-ethylbenzene	-	Sol	Substitution effect	Potts	AC	27	(1955)	1027
$C_8H_9Br_3NO_2B$	3-Carbethoxypyridine boron tribromide	-	Sol	Freq assign	Katritzky	JCS	-	(1959)	2049
$C_8H_9Br_3NO_2B$	4-Carbethoxypyridine boron tribromide	-	Sol	Freq assign	Katritzky	JCS	-	(1959)	2049
C_8H_9Cl	m-Chloroethyl-benzene	-	-	Thermo	Pitzer	JCP	14	(1946)	239
		2-14μ	Sol	Spec	Wright	JOSA	37	(1947)	211
		5-6μ	-	Spec	Young	AC	23	(1951)	709
C_8H_9Cl	o-Chloroethylbenzene	2-14μ	Sol	Spec	Wright	JOSA	37	(1947)	211
		-	-	Ident	Baker	AC	25	(1953)	1457
C_8H_9Cl	p-Chloroethylbenzene	2-14μ	Sol	Spec	Wright	JOSA	37	(1947)	211
C_8H_9Cl	α-Phenethyl chloride	-	-	Ident	Mayo	JACS	76	(1954)	5392
		-	Sol	Substitution effect	Potts	AC	27	(1955)	1027
C_8H_9Cl	β-Phenethyl chloride	-	-	Band freq	Mayo	JACS	76	(1954)	5392
		-	Sol	Substitution effect	Potts	AC	27	(1955)	1027
$C_8H_9ClN_2O_4S$	1-Chloro-2-nitro-benzene-4-sulfone ethylamide	-	-	Spec	Merian	HCA	43	(1960)	1122
C_8H_9ClO	α-Hydroxy-β-chloro-ethylbenzene	-	Sol	Substitution effect	Potts	AC	27	(1955)	1027

$C_8H_9ClO_2S$	2-Phenylethane-sulphonyl chloride	400-4000	L	Freq, Spec	Freeman	AJC	10	(1957)	227
$C_8H_9ClO_2S$	β-Chloroethyl phenyl sulfone	6.25-14.62μ	L,Sol	Table, Band freq, I	Price	JACS	75	(1953)	4747
C_8H_9ClSi	Chlorophenylvinyl-silane	2050-2250	Sol	Freq, Struct	Smith	SA	15	(1959)	412
$C_8H_9Cl_3NO_2B$	3-Carbethoxypyridine boron trichloride	- -	Sol Sol	Assign Freq assign	Katritzky Katritzky	JCS JCS	- -	(1958) (1959)	2182 2049
$C_8H_9Cl_3NO_2B$	4-Carbethoxypyridine boron trichloride	-	Sol	Freq assign	Katritzky	JCS	-	(1959)	2049
$C_8H_9Cl_3OSi$	Trichlorosilyl-ethyl phenyl ether	-	-	Inductive effect	Josien	CPR	249	(1959)	826
C_8H_9F	1,2,3-Fluoroxylene	2-15μ	L	Spec, Freq	Padhye	PIAS	50	(1959)	51
C_8H_9F	1,2,5-Fluoroxylene	2-15μ	L	Spec, Freq	Padhye	PIAS	50	(1959)	51
C_8H_9F	1,2,6-Fluoroxylene	2-15μ	L	Spec, Freq	Padhye	PIAS	50	(1959)	51
C_8H_9F	1,3,4-Fluoroxylene	2-15μ	L	Spec, Freq	Padhye	PIAS	50	(1959)	51
$C_8H_9F_3O_4$	Ethyl (α-trifluoro-acetoxymethyl)-acrylate	-	-	Band freq	Ferris	JOC	20	(1955)	780
$C_8H_9F_7O$	2,2-Dimethyl-4,4,5,5,6,6,6-heptafluoro-3-hexanone	-	L	Anal	Mcbee	JACS	77	(1955)	917
$C_8H_9F_7O$	Perfluoropropyl n-butyl ketone	650-5000	Sol	Stretch freq	Griffin	SA	16	(1960)	1464

C_8H_9IO	α-Hydroxy-β-iodo-ethylbenzene	-	Sol	Substitution effect	Potts	AC	27	(1955)	1027
C_8H_9N	Benzylidenemethyl-amine	-	-	Spec	Ban	CPBT	8	(1960)	194
C_8H_9N	2,3-Cyclopenteno-pyridine	722-1929	-	Table, Ident, I	Arnall	JCS	-	(1954)	4040
C_8H_9N	Indoline	800-1725	Sol	Freq	O'Sullivan	JCS	-	(1960)	3278
C_8H_9N	N-Phenylethyl enimine	-	-	Band freq	Haine	JACS	76	(1954)	1173
C_8H_9NO	Acetanilide	6600-6900	Sol	Spec, Group anal	Wulf	JACS	57	(1935)	1464
		1200-1700	-	Spec	Barnes	IEC	15	(1943)	659
		1500-3600	S,Sol	Spec, Assign	Richards	JCS	-	(1947)	1248
		-	-	Crystal structure	Brown	N	162	(1948)	72
		700-3400	S	IR	Mann	PRS	192	(1948)	489
		-	-	FC	Richards	TFS	44	(1948)	40
		-	Sol	Band freq, I	Richards	TFS	45	(1949)	874
		2-9 μ	Sol	Absorption coeff	Mizushima	JACS	73	(1951)	1330
		-	Sol	Stretch freq	Bourne	JCS	-	(1952)	4014
		700-3400	S	IR, Vib anal	Mann	PRS	211	(1952)	168
		1695-1705	Sol	Band freq, I	Barrow	JCP	21	(1953)	2008
		-	Sol	Solvent effect	Hirota	BCSJ	27	(1954)	295
		-	S,Sol	Group freq	Boxter	JCS	-	(1955)	669
		-	-	Band freq, Bond angle	Krimm	JCP	23	(1955)	1371
		-	Sol	Band freq, Ext coeff, I	Russell	JCS	-	(1955)	483
		-	L,Sol	Band freq	Robson	JACS	77	(1955)	498
		7500-5000	S,L	IR	Abbott	PRS	234	(1956)	247
		1290-4000	Sol	Spec, Struct, H bond	Kellie	JCS	-	(1956)	3809
		-	S	H bond	Pimentel	JCP	24	(1956)	639
		3 μ	Sol	Band study	Russell	SA	8	(1956)	138
		4000-420	-	Spec, Assign	Gray	DA	19	(1958)	454
		700-4000	Sol	Freq, Substitution effect	Holt	JCS	-	(1958)	1958
		4000-600	Sol	Substitution effect	Katritzky	JCS	-	(1958)	4155
		1600-1725	Sol	Freq	Thompson	SA	13	(1958)	236
		-	Sol	Assign, I, Struct	Katritzky	JCS	-	(1959)	2067

		-	Sol	Freq	Freeman	JACS	82	(1960)	2454
		3100-3500	Sol	Config	Suzuki	SA	16	(1960)	471
C_8H_9NO	Acetophenone oxime	3μ	Sol	Freq, H bond	Flett	SA	10	(1958)	21
		2.78μ	-	H bond	Goddu	AC	30	(1958)	1707
C_8H_9NO	m-Aminoaceto-phenone	-	-	Group freq	Califano	GCI	86	(1956)	1014
		-	Sol	Freq, H bond, I	Forbes	CJC	35	(1957)	488
		-	Sol	Freq, I	Jones	CJC	35	(1957)	504
		-	Sol	Freq, FC	Krueger	PRS	243	(1957)	143
		-	Sol	Substitution effect	Thompson	SA	9	(1957)	208
		800-2800	Sol	Electronic structure	Whetsel	AC	30	(1958)	1598
		-	Sol	Band freq	Bryson	JACS	82	(1960)	4858
C_8H_9NO	o-Aminoaceto-phenone	-	Sol	H bond, Freq, I	Forbes	CJC	35	(1957)	488
		-	Sol	Freq, I	Jones	CJC	35	(1957)	504
C_8H_9NO	p-Aminoaceto-phenone	5-7μ	S	Substitution effect	Soloway	JACS	73	(1951)	5000
		1600-1800	Sol	Band freq	Fuson	JACS	76	(1954)	2526
		-	Sol	Freq, H bond, I	Forbers	CJC	35	(1957)	488
		-	Sol	Freq, I	Jones	CJC	35	(1957)	504
		-	Sol	Freq, FC	Krueger	PRS	243	(1957)	143
		-	Sol	Substitution effect	Thompson	SA	9	(1957)	208
		2600-800	-	Electronic struct	Whetsel	AC	30	(1958)	1598
		700-1700	Sol	Freq assign, I	Katritzky	JCS	-	(1959)	2051
		-	-	Absorption freq, Assign, Struct	Katritzky	JCS	-	(1959)	3674
C_8H_9NO	Syn-Benzaldoxime-o-methyl ether	1600-600	L,S, Sol	Freq, Assign	George	CJC	37	(1959)	679
C_8H_9NO	N-Benzylformamide	-	L,Sol	Freq	Robson	JACS	77	(1955)	498
C_8H_9NO	5-Hydroxyindole	2.75-10.57μ	Sol	Table, Group & band freq, I	Er	JACS	76	(1954)	5579
C_8H_9NO	N-Methylbenzamide	650-1700	Sol	IR freq shift	Bellamy	JCS	-	(1955)	4221
		1600-3500	Sol	Freq	Thompson	SA	13	(1958)	236
		-	Sol	Freq	Horak	TEL	3	(1959)	19

C_8H_9NO	Phenylacetamide	1500-3600	S,Sol	Spec, Assign	Richards	JCS	-	(1947)	1248
		2-8 μ	Sol	Spec	Sheehan	JACS	74	(1952)	4555
		-	-	Deuterium exchange	Bonner	JACS	76	(1954)	6350
		1800-1550	Sol	Freq	Kellie	JCS	-	(1956)	3809
$C_8H_9NO_2$	m-Aminophenyl acetate	-	Sol	Freq	Freeman	JACS	82	(1960)	2454
$C_8H_9NO_2$	2,5-Diacetylpyrrole	500-4000	Sol	Spec, Stretch freq	Eisner	JCS	-	(1958)	971
		-	S,Sol	Struct, H bond	Mirone	ANCR	48	(1958)	881
		-	Sol	I, Freq, Struct	Mirone	ANCR	49	(1959)	59
$C_8H_9NO_2$	2,6-Dimethyl-p-benzoquinone-4-oxime	700-3500	S	Band struct	Philbrook	JOC	24	(1959)	568
$C_8H_9NO_2$	1,3-Dimethyl-5-nitrobenzene	700-1000	S,Sol	Bending freq	Bellamy	JCS	-	(1955)	2818
$C_8H_9NO_2$	2,6-Dimethyl-1-nitrobenzene	1650-1200	Sol	H bond, Freq	Dyall	AJC	11	(1958)	513
		1600-1200	Sol	Vib freq, Ext coeff	Hambly	AJC	11	(1958)	529
$C_8H_9NO_2$	3,5-Dimethyl-2,4-pyrroledicarboxaldehyde	-	S,Sol	Freq	Mirone	ANCR	48	(1958)	72
$C_8H_9NO_2$	2-Carbethoxypyridine	-	Sol	Band study, Assign	Katritzky	JCS	-	(1958)	2182
$C_8H_9NO_2$	3-Carbethoxypyridine	-	Sol	Band study, Assign	Katritzky	JCS	-	(1958)	2182
		600-3000	Sol	Assign	Katritzky	JCS	-	(1958)	3165
$C_8H_9NO_2$	4-Carbethoxypyridine	-	Sol	Band study, Assign	Katritzky	JCS	-	(1958)	2182
$C_8H_9NO_2$	o-Ethylnitrobenzene	6-8 μ	Sol	Freq, I	Conduit	JCS	-	(1959)	3273

$C_8H_9NO_2$	p-Ethylnitrobenzene	6-8μ	Sol	Freq, I	Conduit	JCS	-	(1959)	3273
$C_8H_9NO_2$	m-Hydroxyacetanilide	-	Sol	Freq	Freeman	JACS	82	(1960)	2454
$C_8H_9NO_2$	p-Hydroxyacetanilide	-	Sol	Freq	Freeman	JACS	82	(1960)	2454
$C_8H_9NO_2$	Methyl m-aminobenzoate	-	Sol	Freq	Bryson	JACS	82	(1960)	4858
$C_8H_9NO_2$	Methyl o-aminobenzoate	6500-7000	Sol	Spec, Group anal	Wulf	JACS	57	(1935)	1464
		2.5-3.1μ	Sol	H bond	Gordy	JACS	62	(1940)	497
		5.5-6.5μ	L	Spec, H bond	Gordy	JCP	8	(1940)	516
		1800-1600	-	I, Ext coeff	Katritzky	JCS	-	(1959)	3670
		-	-	Freq assign, Struct	Katritzky	JCS	-	(1959)	3674
		800-1500	Sol	Band study, Assign	Katritzky	SA	16	(1960)	954
		-	-	Band study, Assign	Katritzky	SA	16	(1960)	964
$C_8H_9NO_2$	Methyl p-aminobenzoate	650-900	L,Sol	Bending freq	Yoshida	CPBT	8	(1960)	389
$C_8H_9NO_2$	N-Methylanthranilic acid	600-4000	S	Spec, Band study	Heacock	CJC	34	(1956)	1782
$C_8H_9NO_2$	N-Phenylglycine	600-4000	S	Spec, Band study	Heacock	CJC	34	(1956)	1782
$C_8H_9NO_2$	Piperonylamine	-	S	Band study	Wildman	JACS	77	(1955)	1248
		718-1481	Sol	Group freq	Briggs	AC	29	(1957)	904
$C_8H_9NO_2$	4-Pyridinemethanol acetate	-	-	Band freq	Berson	JACS	77	(1955)	1281
$C_8H_9NO_2$	1-(4-Pyridyl)-methyl acetate	-	Sol	Band study, Assign	Katritzky	JCS	-	(1958)	2182
$C_8H_9NO_2$	4,5,6,7-Tetrahydro-4-keto-3-methyl-benzisooxazole	5.92-13.38μ	S	Table, I	Smith	JCS	-	(1953)	803
$C_8H_9NO_2$.HBr	N-2-Pyridonepropionic acid hydrobromide	4000-650	L	Spec	Adams	JACS	71	(1949)	3826

$C_8H_9NO_2 \cdot HCl$	N-Methylanthranilic acid hydrochloride	600-4000	S	Spec, Band study	Heacock	CJC	34	(1956)	1782
$C_8H_9NO_2 \cdot HCl$	N-Phenylglycine hydrochloride	600-4000	S	Spec, Band study	Heacock	CJC	34	(1956)	1782
$C_8H_9NO_2 \cdot HCl$	Piperonylamine hydrochloride	700-1500	S	Group freq	Briggs	AC	29	(1957)	904
$C_8H_9NO_3$	3,5-Dimethyl-2-nitrophenol	2.7-3.0 μ	Sol	H bond	Baker	JACS	80	(1958)	5358
$C_8H_9NO_3$	2-Carbethoxypyridine-N-oxide	-	Sol	Band study, Assign	Katritzky	JCS	-	(1958)	2182
		800-3000	Sol	Subst effect	Katritzky	JCS	-	(1958)	2195
$C_8H_9NO_3$	3-Carbethoxypyridine-N-oxide	-	Sol	Band study, Assign	Katritzky	JCS	-	(1958)	2182
		800-3000	Sol	Spec, Freq, I	Katritzky	JCS	-	(1958)	2195
$C_8H_9NO_3$	4-Carbethoxypyridine-N-oxide	-	Sol	Band study, Assign	Katritzky	JCS	-	(1958)	2182
		600-3000	Sol	Substitution effect	Katritzky	JCS	-	(1958)	2192
$C_8H_9NO_3$	m-Ethoxynitrobenzene	700-1700	Sol	Substitution effect	Katritzky	JCS	-	(1959)	2058
		900-3000	Sol	Group freq, Assign	Katritzky	JCS	-	(1959)	2062
$C_8H_9NO_3$	p-Ethoxynitrobenzene	700-1700	Sol	Substitution effect	Katritzky	JCS	-	(1959)	2051
		700-3000	Sol	Group freq, Assign	Katritzky	JCS	-	(1959)	2062
$C_8H_9NO_3$	o-Methylbenzo-hydroxamate	700-4000	S,Sol	Spec, H bond	Hadzi	SA	10	(1958)	38
$C_8H_9NO_3$	1-(4-Nitrophenyl)-ethanol	-	-	Anal, Band freq	Fuchs	JACS	76	(1954)	1631
$C_8H_9NO_3$	2-(4-Nitrophenyl)-ethanol	-	-	Anal, Band freq	Fuchs	JACS	76	(1954)	1631
$C_8H_9NO_3$	p-Nitrophenethyl alcohol	1.4 μ	Sol	Band study	Gouldman	JOC	23	(1953)	751

$C_8H_9NO_3$	2-Nitro-3,4-xylenol	600-4000	S	Spec, H bond, Assign	Pickering	JACS	80 (1958)	680
$C_8H_9NO_3$	4-Nitro-3,5-xylenol	-	Sol	Stretch freq, Hammett const	Baker	JPC	62 (1958)	744
$C_8H_9NO_3$	6-Nitro-3,4-xylenol	600-4000	S	Spec, H bond, Assign	Pickering	JACS	80 (1958)	680
$C_8H_9NO_3S$	p-Formylphenyl methyl sulfone oxime	-	-	Substitution effect	Momose	CPBT	6 (1958)	412
$C_8H_9NO_4$	Hematinic acid imide	2-13 μ	S	Spec, Group freq, Struct	Richmoud	JACS	74 (1952)	4368
$C_8H_9NO_7$	Hematinic acid imide ozonide	2-13 μ	S	Spec, Group freq, Struct	Richmoud	JACS	74 (1952)	4368
C_8H_9NS	Allyl 2-pyridyl sulfide	1575-650	-	Spec, Group anal	Tarbell	JACS	74 (1952)	48
C_8H_9NS	Propenyl 2-pyridyl sulfide	1575-650	-	Spec, Group anal	Tarbell	JACS	74 (1952)	48
C_8H_9NS	Thioacetanilide	3 μ	Sol	Band study	Russell	SA	8 (1956)	138
		-	Sol	Freq, Rotational iso	Suzuki	NKZ	80 (1959)	697
		3100-3500	Sol	Config	Suzuki	SA	16 (1960)	471
$C_8H_9N_2S$	2-(3-Pyridyl)-3-thiopyrroline	6.2 μ	Sol	Substitution effect	Meyers	JOC	24 (1959)	1233
$C_8H_9N_3$	β-Phenylethyl-azide	2-16 μ	Sol	Spec	Boyer	JACS	73 (1951)	5248
$C_8H_9N_3O$	Benzaldehyde semi-carbazone	700-3500	S	Ident, Assign	Davison	JCS	- (1955)	3389
$C_8H_9N_5$	1-Benzyl-5-amino-tetrazole	2-6.6 μ	S	Band freq	Murphy	JOC	19 (1954)	1807
$C_8H_9N_5$	2-Dimethylamino-pteridine	710-3500	S	Spec, Table, Assign, I	Mason	JCS	- (1955)	2336

$C_8H_9N_5$	4-Dimethylamino-pteridine	715-1945	S	Table, I	Mason	JCS	-	(1955)	2336
$C_8H_9N_5$	6-Dimethylamino-pteridine	683-1930	S	Table, I	Mason	JCS	-	(1955)	2336
$C_8H_9N_5$	7-Dimethylamino-pteridine	713-1985	S	Table, I	Mason	JCS	-	(1955)	2336
$C_8H_9N_5$	1-Methyl-5-phenyl-aminotetrazole	6-14μ	S	Spec	Finnegan	JACS	77	(1955)	4420
$C_8H_9N_5$	5-Methyl-1-phenyl-aminotetrazole	6-14μ	S	Spec	Finnegan	JACS	77	(1955)	4420
$C_8H_9N_5$	1-o-Tolyl-5-amino-tetrazole	2-6.6μ	S	Band freq	Murphy	JOC	19	(1954)	1807
$C_8H_9O_3B$	Ethyl-o-phenylene borate	6-14μ	L,Sol	Assign, Struct	Blau	JCS	-	(1960)	380
$C_8H_9O_5P$	Acetylphenylphosphate	2-9μ	Sol	Spec, Freq	Jencks	ABB	88	(1960)	193
C_8H_{10}	Bicyclo[2.2.2]-2,5-octadiene	2-15μ	L	Spec	Hine	JACS	77	(1955)	594
C_8H_{10}	Bicyclo[4.2.0]-2,4-octadiene	2-16μ	L	Spec, Taut	Cope	JACS	74	(1952)	4867
C_8H_{10}	1,3,5-Cycloocta-triene	2.5-15μ	-	Spec, Struct	Cope	JACS	72	(1950)	1123
		-	-	Ident	Cope	JACS	72	(1950)	2510
		2.5-16μ	-	Spec, Iso	Cope	JACS	72	(1950)	2515
		2-16μ	L	Spec, Ident, Taut	Cope	JACS	74	(1952)	4867
C_8H_{10}	1,3,6-Cycloocta-triene	2.5-16μ	-	Spec	Cope	JACS	72	(1950)	2515

C_8H_{10}	1,2-Dimethylbenzene	8-2.0μ	L	Magnetic rotation	Ingersoll	JOSA	6	(1922)	663
		2-14μ	L	Spec	Ellis	PR	27	(1926)	298
		-	L	Photo recording	Barnes	JACS	49	(1927)	2034
		3.1-3.6μ	L	Spec, Freq	Barnes	PR	35	(1930)	1524
		1.1-1.8μ	L	Spec	White	JRNB	9	(1932)	711
		1.1-1.8μ	Sol	Spec	Liddel	JRNB	11	(1933)	599
		-	-	Thermo	Kassel	JCP	4	(1936)	276
		750-1900	-	Absorption freq, Spec	Barnes	IEC	15	(1943)	659
		-	-	Thermo, Vib freq	Pitzer	JACS	65	(1943)	803
		5-8μ	-	C_6H_6 derivatives	Depaigne	JPR	7	(1946)	33
		-	Sol	Spec, Iso	Barnes	AC	20	(1948)	402
		12-14μ	Sol	Freq, I	Bell	PRS	192	(1948)	498
		12.4-14.8μ	Sol	Anal	Kaye	AC	20	(1948)	1006
		8000-9000	Sol	Anal	Hibbard	AC	21	(1949)	486
		9-14μ	Sol	Freq, Dipole moment, I	Cole	TFS	46	(1950)	103
		-	-	Group anal	Hastings	AC	24	(1952)	612
		-	-	Anal	Pines	JACS	74	(1952)	4872
		-	Sol	Band freq, H bond	Tamres	JACS	74	(1952)	3375
		-	Sol	Anal	Williams	AC	24	(1952)	1911
		-	-	Absorbance	Bomstein	AC	25	(1953)	512
		-	-	Band freq	Pines	JACS	75	(1953)	6226
		-	-	Anal	Martin	AC	26	(1954)	1886
		12-15μ	Sol	Anal	Schnurmann	AC	26	(1954)	1263
		-	-	Anal, Ident	Newman	JACS	77	(1955)	3789
		900-1050	Sol	Rocking mode vib	Randle	JCS	-	(1955)	3497
		1650-2000	-	Bending freq, Assign	Whiffen	SA	7	(1955)	253
		-	-	Freq	Podall	AC	29	(1957)	1423
		-	-	Solvent effect	Matheson	AC	30	(1958)	63A
		15-35μ	S	Spec, Struct	Bentley	SA	15	(1959)	165
		800-1600	-	I, Ext coeff	Katritzky	JCS	-	(1959)	3670
		-	-	NCA, Assign	Kovner	OS	7	(1959)	751
		900-1300	Sol	Freq	Puttnam	JCS	-	(1960)	2934
C_8H_{10}	1,3-Dimethylbenzene	2-2.8μ	L	Spec	Ellis	PR	27	(1926)	298
		-	L	Photo recording	Barnes	JACS	49	(1927)	2034
		8-2.8μ	L	Spec	Ellis	JACS	49	(1927)	347

		59-2.8μ	L	IR	Ellis	PR	32	(1928)	906
		3.1-3.6μ	L	Spec, Freq	Barnes	PR	35	(1930)	1524
		4-1.8μ	-	Dispersion study	Korff	RMP	4	(1932)	471
		1.1-1.8μ	L	Spec	White	JRNB	9	(1932)	711
		1.1-1.8μ	Sol	Spec	Liddel	JRNB	11	(1933)	599
		-	-	Thermo	Kassel	JCP	4	(1936)	276
		3μ	-	Spec, Anal	Gore	IEC	13	(1941)	768
		7050-1950	-	Absorption freq, Spec	Barnes	IEC	15	(1943)	659
		-	-	Thermo, Vib freq	Pitzer	JACS	65	(1943)	803
		5-6μ	-	C_6H_6 derivatives	Depaigne	JPR	7	(1946)	33
		-	L,Sol	Mol weight study	Lepeschkin	JPC	51	(1947)	875
		-	Sol	Spec, Iso	Barnes	AC	20	(1948)	402
		12-14μ	Sol	Freq, I	Bell	PRS	192	(1948)	498
		12.4-14.8μ	Sol	Anal	Kaye	AC	20	(1948)	1006
		8000-9000	Sol	Anal	Hibbard	AC	21	(1949)	486
		9-14μ	Sol	Freq, Dipole moment, I	Cole	TFS	46	(1950)	103
		5-6μ	L	Spec	Young	AC	23	(1951)	709
		-	-	Anal	Pines	JACS	74	(1952)	4872
		-	Sol	Band freq, H bond	Tamres	JACS	74	(1952)	3375
		-	Sol	Anal	Williams	AC	24	(1952)	1911
		-	-	Absorption study	Bomstein	AC	25	(1953)	512
		-	-	Anal	Ipatieff	JACS	75	(1953)	3323
		-	-	Band freq	Pines	JACS	75	(1953)	6226
		-	-	Anal, I	Martin	AC	26	(1954)	1886
		12-15μ	Sol	Anal	Schnurmann	AC	26	(1954)	1263
		700-1000	S,Sol	Bending freq	Bellamy	JCS	-	(1955)	2818
		-	L	Ident	Pines	JACS	77	(1955)	4370
		1650-2000	-	Bending freq, Assign	Whiffen	SA	7	(1955)	253
		-	-	Freq	Podall	AC	29	(1957)	1423
		2-30μ	G,L	Spec, Vib assign	Wilmshurst	CJC	35	(1957)	911
		-	-	Solvent effect	Matheson	AC	30	(1958)	63A
		15-35μ	S	Spec, Struct	Bentley	SA	15	(1959)	165
		700-1700	Sol	Substitution effect	Katritzky	JCS	-	(1959)	2058
C_8H_{10}	1,4-Dimethylbenzene	0-2.5μ	L	Spec	Ellis	PR	23	(1924)	48
		59-2.8μ	L	Spec	Ellis	PR	27	(1926)	298
		-	L	Photo recording	Barnes	JACS	49	(1927)	2034
		1.1-1.2μ	L	Shift	Barnes	JACS	51	(1929)	1750

		3.1-3.6 μ	L	Spec, Freq	Barnes	PR	35	(1930)	1524
		1.1-1.8 μ	L	Spec	White	JRNB	9	(1932)	711
		1.1-1.8 μ	L	Spec	Liddel	JRNB	11	(1933)	599
		-	-	Thermo	Kassel	JCP	4	(1936)	276
		750-1950	-	Absorption freq, Spec	Barnes	IEC	15	(1943)	659
		-	-	Thermo, Vib freq	Pitzer	JACS	65	(1943)	803
		5-8 μ	-	C_6H_6 derivatives	Depaigne	JPR	7	(1946)	33
		-	Sol	Spec, Iso	Barnes	AC	21	(1948)	402
		12-14 μ	Sol	Freq, I	Bell	PRS	192	(1948)	498
		12.4-14.8 μ	Sol	Anal	Kaye	AC	20	(1948)	1006
		8000-9000	Sol	Anal	Hibbard	AC	21	(1949)	486
		9-14 μ	Sol	Freq, Dipole moment, I	Cole	TFS	46	(1950)	103
		-	-	Anal	Pines	JACS	74	(1952)	4872
		-	Sol	Anal	Williams	AC	24	(1952)	1911
		-	-	Band freq, Absorption study	Bomstein	AC	25	(1953)	512
		-	-	Anal	Ipaticff	JACS	75	(1953)	3323
		-	-	Band freq	Pines	JACS	75	(1953)	6226
		-	-	Anal	Martin	AC	26	(1954)	1886
		12-15 μ	Sol	Anal, I	Schnurmann	AC	26	(1954)	1263
		700-1000	S,Sol	Bending freq	Bellamy	JCS	-	(1955)	2818
		900-1050	Sol	Rocking mode vib	Randle	JCS	-	(1955)	3497
		1650-2000	Bending	freq, Assign	Whiffen	SA	7	(1955)	253
		12-15 μ	L,Sol	Bending freq	Kross	JACS	78	(1956)	1332
		-	Sol	Band freq, I	Randle	TFS	52	(1956)	9
		-	-	Freq	Podall	AC	29	(1957)	1423
		-	-	Solvent effect	Matheson	AC	30	(1958)	63A
		15-35 μ	S	Spec, Struct	Bentley	SA	15	(1959)	165
		700-1700	Sol	Substitution effect	Katritzky	JCS	-	(1959)	2051
		-	Sol	Solvent effect	LaLau	SA	14	(1959)	181
		3400-3800	Sol	H bond, Band shift	West	JACS	81	(1959)	1614
		700-4000	L,Sol	Freq, Ext coeff	Demaine	CJC	38	(1960)	1921
C_8H_{10}	4,5-Dimethylene-cyclohexene	-	-	Group freq	Marvel	JACS	77	(1955)	66
C_8H_{10}	6,6-Dimethylfulvene	4000-660	Sol	Spec	Wood	AC	30	(1958)	1339

C_8H_{10}	Ethylbenzene	-	L	Photo recording	Barnes	JACS	49	(1927)	2034
		3.1-3.6μ	L	Spec, Freq	Barnes	PR	35	(1930)	1524
		1.1-1.8μ	Sol	Spec	Liddel	JRNB	11	(1933)	599
		1.1-1.8μ	L	Spec	White	JRNB	10	(1933)	639
		1-14μ	L	Spec	Stair	JRNB	15	(1935)	295
		1100-1800	-	Spec, Absorption freq	Barnes	IEC	15	(1943)	659
		3-4μ	L	Dispersion study	Wright	RSI	15	(1944)	22
		-	-	Thermo	Brickwedde	JCP	13	(1945)	547
		-	-	Thermo	Pitzer	JCP	14	(1946)	239
		-	-	Vib freq	Taylor	JRNB	38	(1947)	1
		12.4-14.8μ	Sol	Anal	Kaye	AC	20	(1948)	1006
		-	-	Anal	Saier	AC	20	(1948)	812
		8000-9000	Sol	Anal	Hibbard	AC	21	(1949)	486
		2-15μ	L	Spec	White	AC	22	(1950)	768
		-	-	Ident, Spec	Cope	JACS	74	(1952)	168
		3.32-3.56μ	-	Group anal	Hastings	AC	24	(1952)	612
		-	Sol	Anal	Williams	AC	24	(1952)	1911
		-	-	Anal	Blau	JACS	75	(1953)	3330
		-	-	Anal	Ipatieff	JACS	75	(1953)	3323
		-	-	Anal	Martin	AC	26	(1954)	1886
		9-15μ	L	Spec, Epoxy study	Patterson	AC	26	(1954)	823
		12-15μ	Sol	Anal	Schnurmann	AC	26	(1954)	1263
		-	L	Anal, Freq	Searles	JACS	76	(1954)	2313
		625-900	-	Substitution effect	Margoshes	SA	7	(1955)	14
		-	Sol	Substitution effect	Potts	AC	27	(1955)	1027
		12-15μ	L	Bending freq	Kross	JACS	78	(1956)	1332
		-	Sol	Band freq, I	Randle	TFS	52	(1956)	9
		-	Sol	Quant anal	Kiley	AC	29	(1957)	1553
		4000-600	Sol	Substitution effect	Katritzky	JCS	-	(1958)	4155
		15-35μ	S	Spec, Struct	Bentley	SA	15	(1959)	165
		-	-	Bending freq	Kakiyuchi	NKZ	80	(1959)	28
		2-15μ	L	Spec, Struct	Hawkes	SA	16	(1960)	633
		900-1030	Sol	Freq	Puttnam	JCS	-	(1960)	2934
C_8H_{10}	1,3,5,7-Octatetraene	-	-	Quant mech	Mulliken	JCP	7	(1939)	364
		2-15μ	Sol	Spec	Woods	JACS	71	(1949)	1396
		2-15μ	Sol	Purification	Sorensen	ACS	8	(1954)	284
		5000-3200	Sol	Assign, Struct	Lippincott	JACS	81	(1959)	1316

$C_8H_{10}DN$	N-Ethylaniline-d_1	-	L	Freq	Hadzi	JCS	-	(1957)	843
$C_8H_{10}DN$	N-Methyl-p-toluidine-d_1	-	L	Freq	Hadzi	JCS	-	(1957)	843
$C_8H_{10}BrN$	p-Bromo-N,N-dimethylaniline	1700-700	L,S	Spec	Richards	PRS	195	(1948)	1
$C_8H_{10}BrNO_2S$	N-p-Bromophenyl-N-methylmethanesulfonamide	874-1470	Sol	Freq, Assign, Ext coeff	Katritzky	JCS	-	(1960)	4497
$C_8H_{10}ClN$	p-Chloro-N,N-dimethylaniline	1700-700	L,S	Spec	Richards	PRS	195	(1948)	1
$C_8H_{10}ClNO$	N-(2-Hydroxyethyl)-o-chloroaniline	2100-1400	Sol	Anal, Struct	Whetsel	AC	30	(1958)	1594
$C_8H_{10}ClNO_2$	1,5-Dimethoxy-4-chloroaniline	2600-800	Sol	Struct, Anal, I	Whetsel	AC	30	(1958)	1598
$C_8H_{10}ClNO_2S$	N-(p-Chlorophenyl)-N-methylmethanesulfonamide	874-1470	Sol	Freq, Assign, Ext coeff	Katritzky	JCS	-	(1960)	4497
$C_8H_{10}ClNO_2S.HCl$	4-Aminomethyl-3-chloro-4-phenyl methyl sulfone hydrochloride	-	S	Substitution effect	Momose	CPBT	6	(1958)	412
$C_8H_{10}ClN_3$	1-p-Chlorophenyl-3,3-dimethyl triazen	600-1800	S	Spec, Assign	Leferre	AJC	6	(1953)	341
$C_8H_{10}Cl_2$	1,6-Dichloro-1,5-cyclooctadiene	2.5-15.5μ	-	Spec, Struct	Cope	JACS	72	(1950)	3056
$C_8H_{10}F_4O_2$	1,2-Diethoxy-3,3,4,4-tetrafluorocyclobutene	2-15μ	L	Spec, Struct anal	Park	JACS	71	(1949)	2337

$C_8H_{10}F_4O_2S_2$	Diethyldithio tetrafluoro-succinate	2-16μ	L	Spec, Band freq	Hauptachein	JACS	74	(1952)	1974
$C_8H_{10}F_4O_4$	Diethyl tetrafluoro-succinate	2-16μ	L	Spec, Band freq	Hauptachein	JACS	74	(1952)	1974
$C_8H_{10}IO_2S$	p-Aminomethylphenyl iodomethyl sulfone	-	S	Substitution effect	Momose	CPBT	6	(1958)	412
$C_8H_{10}N_2$	1-(Ethylpropylidene)-malonodinitrile	-	Sol	Band freq, I	Felton	JCS	-	(1955)	2170
$C_8H_{10}N_2O$	2-N-Acetyl-N-methyl-aminopyridine	-	Sol	Group freq, Assign, I	Katritzky	JCS	-	(1959)	2067
$C_8H_{10}N_2O$	3-N-Acetyl-N-methyl-aminopyridine	600-3000	Sol Sol	Assign, Symmetry Group freq, Assign, I	Katritzky Katritzky	JCS JCS	- -	(1958) (1959)	3165 2067
$C_8H_{10}N_2O$	4-N-Acetyl-N-methyl-aminopyridine	-	Sol	Group freq, Assign, I	Katritzky	JCS	-	(1959)	2067
$C_8H_{10}N_2O$	m-Aminoacetanilide	-	Sol	Inductive & resonance effect	Freeman	JACS	82	(1960)	2454
$C_8H_{10}N_2O$	p-Aminoacetanilide	1600-1725 -	Sol Sol	Freq Freq	Thompson Freeman	SA JACS	13 82	(1958) (1960)	236 2454
$C_8H_{10}N_2O$	Benzylurea	1200-1700	-	Spec	Barnes	IEC	15	(1943)	659
$C_8H_{10}N_2O$	p-Dimethylamino-nitrosobenzene	822-1535	S,Sol	Group assign, Stretch free	Nakamoto	JACS	78	(1956)	1113
$C_8H_{10}N_2O_2$	2-N-Acetyl-N-methyl-aminopyridine-N-oxide	-	Sol	Group freq, Assign, I	Katritzky	JCS	-	(1959)	2067

$C_8H_{10}N_2O_2$	4-N-Acetyl-N-methyl-aminopyridine-N-oxide	600-3000	Sol	Substitution effect	Katritzky	JCS	-	(1958)	2192
		-	Sol	Group freq, Assign, I	Katritzky	JCS	-	(1959)	2067
$C_8H_{10}N_2O_2$	N,N-Dimethyl-m-nitroaniline	2800-3000	S	Group study	Braunholtz	JCS	-	(1958)	2780
		1650-1200	S	Freq, H bond	Dyall	AJC	11	(1958)	513
		1650-1200	S	Freq	Hambly	AJC	11	(1958)	529
$C_8H_{10}N_2O_2$	N,N-Dimethyl-p-nitroaniline	1300-1600	S,Sol	Struct	Kross	JACS	78	(1956)	4225
		2800-3000	S	Group study	Braunholtz	JCS	-	(1958)	2780
		1650-1200	S	Freq, H bond	Dyall	AJC	11	(1958)	513
		1650-1200	S	Freq	Hambly	AJC	11	(1958)	529
		-	-	Absorption freq, Assign, Struct	Katritzky	JCS	-	(1959)	3674
$C_8H_{10}N_2O_2$	Ethyl N-(2-pyridyl)-urethan	1000-3500	Sol	Spec, Assign, I	Katritzky	JCS	-	(1960)	676
$C_8H_{10}N_2O_2$	Ethyl N-(3-pyridyl)-urethan	1000-3500	Sol	Spec, Assign, I	Katritzky	JCS	-	(1960)	676
$C_8H_{10}N_2O_2$	Ethyl N-(4-pyridyl)-urethan	1000-3500	Sol	Spec, Assign, I	Katritzky	JCS	-	(1960)	676
$C_8H_{10}N_2O_2$	3,4,5,3',4',5'-Hexa-hydrodifuro-2,3-b,2',3'-e-pyrazine	2-16μ	Sol	Spec, Struct	Goering	JACS	73	(1951)	4737
$C_8H_{10}N_2O_2$	2-Nitro-4-methyl-aminotoluene	-	-	Comparison	Fuson	JACS	75	(1953)	5744
$C_8H_{10}N_2O_2$	3-Nitro-4-methyl-aminotoluene	-	-	Comparison	Fuson	JACS	75	(1953)	5744
$C_8H_{10}N_2O_2 \cdot H_2O$	2-Amino-1-(2-carboxy)-ethylpyridinium betaine hydrate	2.98-14.66μS		Table, Group freq	Hurd	JACS	77	(1953)	117

$C_8H_{10}N_2O_3$	Ethyl N-(2-pyridyl-N-oxide)urethane	800-3000	Sol	Substitution effect	Katritzky	JCS	-	(1958)	2195
		1000-3500	Sol	Spec, Assign, I	Katritzky	JCS	-	(1960)	676
$C_8H_{10}N_2O_4$	Leucenol-dl	650-3400	S	Spec	Adams	JACS	69	(1947)	1810
		3500-650	S	Hydrous study	Adams	JACS	71	(1949)	705
$C_8H_{10}N_2O_6$	Ethyl furoxandi-carboxylate	-	Sol	Table, Group freq, I	Boyer	JACS	77	(1955)	4238
$C_8H_{10}N_4O_2$	Caffeine	2-15μ	S	Spec	Blout	JACS	72	(1950)	479
		1400-2000	Sol	Spec, Anal	Parke	AC	23	(1951)	953
		2-16μ	S	Spec	Muller	AC	28	(1956)	37
		-	-	Group freq	Fortune	AC	29	(1957)	17
		10.26μ	Sol	Quant anal	Washburn	AC	29	(1957)	1895
$C_8H_{10}N_4O_2$	N-m-Methylphenyl-N'-nitroguanidine	2-15μ	S	Spec, Freq	Lieber	AC	23	(1951)	1594
$C_8H_{10}N_4O_2$	N-o-Methylphenyl-N'-nitroguanidine	2-15μ	S	Spec, Freq	Lieber	AC	23	(1951)	1594
$C_8H_{10}N_4O_2$	1-m-Nitrophenyl-3,3-dimethyltriazen	600-1800	S	Spec, Assign	LeFevre	AJC	6	(1953)	341
$C_8H_{10}N_4O_2$	1-p-Nitrophenyl-3,3-dimethyltriazen	600-1800	S	Spec, Assign	LeFevre	AJC	6	(1953)	341
$C_8H_{10}O$	Benzyl methyl ether	8-2.5μ	L	Spec	Sappenfield	PR	33	(1929)	37
		-	-	Ident	Highet	JACS	77	(1955)	4399
$C_8H_{10}O$	Bicyclo[3.3.0]-1,5-octene-2-one	2.5-15.5μ	-	Spec, Struct	Cope	JACS	72	(1950)	3056
$C_8H_{10}O$	2,3-Dimethylphenol	700-1300	Sol	Spec, Anal, Assign	Whiffen	JCS	-	(1945)	268
		-	-	Freq, Anal	Whiffen	TFS	41	(1945)	200
		5-15μ	L,S	Spec, Table	Kletz	JCS	-	(1947)	644
		3100-3700	S,Sol	Spec, Assign	Richards	JCS	-	(1947)	1260
		8-15μ	Sol	Spec, Anal	Friedel	AC	22	(1950)	418

		2.5-15μ	Sol	Spec, Band freq, I	Friedel	JACS	73	(1951)	2881
		-	-	Ident	Vanmeter	AC	24	(1952)	1758
		11-14μ	Sol	Spec, Quant anal	Fair	AC	27	(1955)	1886
		-	Sol	Freq	Bavin	CJC	35	(1957)	1555
		3500-3700	Sol	Freq, I, Hammett const	Flynn	AJC	12	(1959)	575
		3500-3800	Sol	Freq, Hammett const	Puttnam	JCS	-	(1960)	5100
		650-1400	Sol	Spec	Shrewsbury	SA	16	(1960)	1294
$C_8H_{10}O$	2,4-Dimethylphenol	1100-1800	-	Spec	Barnes	IEC	15	(1943)	659
		700-1300	Sol	Spec, Anal, Assign	Whiffen	JCS	-	(1945)	268
		-	-	Freq, Anal	Whiffen	TFS	41	(1945)	200
		5-15μ	L,Sol	Spec, Table	Kletz	JCS	-	(1947)	644
		3μ	L,Sol	H bond	Sears	JACS	71	(1949)	4110
		8-15μ	Sol	Spec, Anal	Friedel	AC	22	(1950)	418
		2.5-15μ	Sol	Spec, Band freq, I	Friedel	JACS	73	(1951)	2881
		-	-	Ident	Vanmeter	AC	24	(1952)	1758
		11-14μ	Sol	Spec, Quant anal	Fair	AC	27	(1955)	1886
		1650-2000	-	Bending freq, Assign	Whiffen	SA	7	(1955)	253
		-	Sol	Freq	Bavin	CJC	35	(1957)	1555
		900-1030	Sol	Freq	Puttnam	JCS	-	(1960)	2934
		3500-3800	Sol	Freq, Hammett const	Puttnam	JCS	-	(1960)	5100
		650-1400	Sol	Spec	Shrewsbury	SA	16	(1960)	1294
$C_8H_{10}O$	2,5-Dimethylphenol	1050-1800	-	Spec	Barnes	IEC	15	(1943)	659
		700-1300	Sol	Spec, Anal, Assign	Whiffen	JCS	-	(1945)	268
		-	-	Freq, Anal	Whiffen	TFS	41	(1945)	200
		5-15μ	L,Sol	Spec, Table	Kletz	JCS	-	(1947)	644
		8-15μ	Sol	Spec, Anal	Friedel	AC	22	(1950)	418
		2.5-15μ	Sol	Spec, Table, I Solvent effect	Friedel	JACS	73	(1951)	2881
		2.84μ	Sol	Anal	Simard	AC	23	(1951)	1384
		-	-	Ident	Vanmeter	AC	24	(1952)	1758
		-	Sol	Freq, Dissociation const	Goulden	SA	6	(1954)	129
		11-14μ	Sol	Spec, Quant anal	Fair	AC	27	(1955)	1886
		-	Sol	Freq	Bavin	CJC	35	(1957)	1555
		3500-3800	Sol	Freq, Hammett const	Puttnam	JCS	-	(1960)	5100
		650-1400	Sol	Spec	Shrewsbury	SA	16	(1960)	1294

$C_8H_{10}O$	2,6-Dimethylphenol	6900-7200	Sol	Band study	Wulf	JACS	58	(1936)	2287
		1000-1800	-	Spec	Barnes	IEC	15	(1943)	659
		700-1300	Sol	Spec, Anal, Assign	Whiffen	JCS	-	(1945)	268
		-	-	Freq, Anal	Whiffen	TFS	41	(1945)	200
		5-15μ	L,S	Spec, Table	Kletz	JCS	-	(1947)	644
		3100-3700	S,Sol	Spec, Assign	Richards	JCS	-	(1947)	1260
		-	S	Band study	Thompson	JCS	-	(1947)	289
		3μ	L,S, Sol	H bond	Sears	JACS	71	(1949)	4110
		8-15μ	Sol	Spec, Anal	Friedel	AC	22	(1950)	418
		2.5-15μ	Sol	Spec, Table, Band freq	Friedel	JACS	73	(1951)	2881
		5-6μ	-	Spec	Young	AC	23	(1951)	709
		8-15μ	Sol	Spec, Anal	Vanmeter	AC	24	(1952)	1758
		11-14μ	Sol	Spec, Quant anal	Fair	AC	27	(1955)	1886
		1650-2000	-	Bending freq, Assign	Whiffen	SA	7	(1955)	253
		-	Sol	Freq	Bavin	CJC	35	(1957)	1555
		3500-3800	Sol	Freq, Hammett const	Puttnam	JCS	-	(1960)	5100
		650-1400	Sol	Spec	Shrewsbury	SA	16	(1960)	1294
$C_8H_{10}O$	3,4-Dimethylphenol	1100-1750	-	Spec	Barnes	IEC	15	(1943)	659
		700-1300	Sol	Spec, Anal, Assign	Whiffen	JCS	-	(1945)	268
		-	-	Freq, Anal	Whiffen	TFS	41	(1945)	200
		5-15μ	L,S	Spec, Table	Kletz	JCS	-	(1947)	644
		8-15μ	Sol	Spec, Anal	Friedel	AC	22	(1950)	418
		2.5-15μ	Sol	Spec, Band freq, I	Friedel	JACS	73	(1951)	2881
		2.84μ	Sol	Anal	Simard	AC	23	(1951)	1384
		-	-	Ident	Vanmeter	AC	24	(1952)	1758
		-	Sol	Freq, Dissociation const	Goulden	SA	6	(1954)	129
		11-14μ	Sol	Spec, Quant anal	Fair	AC	27	(1955)	1886
		-	Sol	Freq	Bavin	CJC	35	(1957)	1555
		3μ	Sol	Bond length, I	Moccia	PRS	243	(1958)	154
		600-4000	S	Spec, H bond, Assign	Pickering	JACS	80	(1958)	680
		-	Sol	Substitution effect	Stone	SA	10	(1958)	17
		3500-3800	Sol	Freq , Hammett const	Puttnam	JCS	-	(1960)	5100
		650-1400	Sol	Spec	Shrewsbury	SA	16	(1960)	1294

$C_8H_{10}O$	3,5-Dimethylphenol	1125-1775	-	Spec	Barnes	IEC	15	(1943)	659
		700-1300	Sol	Spec, Anal, Assign	Whiffen	JCS	-	(1945)	268
		-	-	Freq, Anal	Whiffen	TFS	41	(1945)	200
		5-15μ	L,S	Spec, Table	Kletz	JCS	-	(1947)	644
		8-15μ	Sol	Spec, Anal	Friedel	AC	22	(1950)	418
		2.5-15μ	Sol	Spec, Band freq, I	Friedel	JACS	73	(1951)	2881
		2.84μ	Sol	Anal	Simard	AC	23	(1951)	1384
		5-6μ	-	Spec	Young	AC	23	(1951)	709
		3μ	Sol	Stretch freq, Hammett const	Ingraham	JACS	74	(1952)	2297
		-	-	Ident	Vanmeter	AC	24	(1952)	1758
		700-1000	S,Sol	Bending freq	Bellamy	JCS	-	(1955)	2818
		11-14μ	Sol	Spec, Anal	Fair	AC	27	(1955)	1886
		1650-2000	-	Bending freq, Assign	Whiffen	SA	7	(1955)	253
		-	Sol	Freq	Bavin	CJC	35	(1957)	1555
		3500-3800	Sol	Freq, Hammett const	Puttnam	JCS	-	(1960)	5100
		650-1400	Sol	Spec	Shrewsbury	SA	16	(1960)	1294
$C_8H_{10}O$	m-Ethylphenol	1050-1800	-	Absorption freq, Spec	Barnes	IEC	15	(1943)	659
		8-15μ	Sol	Spec, Anal	Friedel	AC	22	(1950)	418
		2.5-15μ	Sol	Spec, Band freq, I	Friedel	JACS	73	(1951)	2881
		3μ	Sol	Stretch freq, Hammett const	Ingraham	JACS	74	(1952)	2297
		-	-	Spec, Ident	Pasternach	JACS	74	(1952)	1928
		-	-	Absorption study	Bomstein	AC	25	(1953)	512
		-	-	Ident	Hochstein	JACS	75	(1953)	5455
		11-14μ	Sol	Spec, Quant anal	Fair	AC	27	(1955)	1886
		3500-3800	Sol	Freq , Hammett const	Puttnam	JCS	-	(1960)	5100
		650-1400	Sol	Spec	Shrewsbury	SA	16	(1960)	1294
$C_8H_{10}O$	o-Ethylphenol	1050-1800	-	Absorption freq, Spec	Barnes	IEC	15	(1943)	659
		3100-3700	L	Spec, Assign	Richards	JCS	-	(1947)	1260
		8-15μ	Sol	Spec, Anal	Friedel	AC	22	(1950)	418
		2.5-15μ	Sol	Spec, Band freq, I	Friedel	JACS	73	(1951)	2881
		-	-	Ident	Vanmeter	AC	24	(1952)	1758
		-	-	Absorption study	Bomstein	AC	25	(1953)	512
		11-14μ	Sol	Spec, Quant anal	Fair	AC	27	(1955)	1886

		3570-3700	Sol	Freq,I, H bond	Flynn	AJC	12	(1959)	575
		650-1400	Sol	Spec	Shrewsbury	SA	16	(1960)	1294
$C_8H_{10}O$	p-Ethylphenol	1050-1800	-	Absorption freq, Spec	Barnes	IEC	15	(1943)	659
		5-15μ	L,S	Spec, Table	Klatz	JCS	-	(1947)	644
		8-15μ	Sol	Spec, Anal	Friedel	AC	22	(1950)	418
		2.5-15μ	Sol	Spec, Band freq, I	Friedel	JACS	73	(1951)	2881
		-	-	Ident	Vanmeter	AC	24	(1952)	1758
		-	-	Absorption study	Bomstein	AC	25	(1953)	512
		11-145μ	Sol	Spec, Quant anal	Fair	AC	27	(1955)	1886
		3570-3700	Sol	Freq, I,H bond	Flynn	AJC	12	(1959)	575
		900-1030	Sol	Freq	Puttnam	JCS	-	(1960)	2934
		650-1400	Sol	Spec	Shrewsbury	SA	16	(1960)	1294
$C_8H_{10}O$	m-Methoxytoluene	800-1800	-	Absorption freq, Spec	Barnes	IEC	15	(1943)	659
		-	-	Absorption study	Bomstein	AC	25	(1953)	512
		700-1700	Sol	Substitution effect	Katritzky	JCS	-	(1959)	2058
		900-3000	Sol	Group freq, Assign	Katritzky	JCS	-	(1959)	2062
		600-1700	L	Spec	Lecompte	CPR	249	(1959)	2443
$C_8H_{10}O$	p-Methoxytoluene	-	-	Electric moment	Williams	CR	6	(1929)	589
		800-1800	-	Absorption freq, Spec	Barnes	IEC	15	(1943)	659
		-	-	Absorption study	Bomstein	AC	25	(1953)	512
		700-1700	Sol	Substitution effect	Katritzky	JCS	-	(1959)	2051
		900-3000	Sol	Group freq, Assign	Katritzky	JCS	-	(1959)	2062
		600-1700	L	Spec	Lecompte	CPR	249	(1959)	2443
$C_8H_{10}O$	m-Methylbenzyl alcohol	-	-	Band assign	Michinori	BCSJ	32	(1959)	950
		-	-	Substitution effect, Iso	Oki	BCSJ	32	(1959)	955
$C_8H_{10}O$	o-Methylbenzyl alcohol	2-16μ	S	Spec	Entel	JACS	74	(1952)	441
$C_8H_{10}O$	p-Methylbenzyl alcohol	-	-	Substitution effect, Iso	Oki	BCSJ	32	(1959)	955

$C_8H_{10}O$	1-Methyl-2-methoxy-benzene	800-1800	-	Absorption freq, Spec	Barnes	IEC	15	(1943)	659
		-	-	Absorption study	Bomstein	AC	25	(1953)	512
		600-1700	L	Spec	Lecompte	CPR	249	(1959)	2443
$C_8H_{10}O$	2,4,6-Octatrienal	1400-2000	Sol	Spec	Blout	JACS	70	(1948)	194
$C_8H_{10}O$	1-Phenyl-1-ethanol	6900-7200	Sol	Spec, Group anal	Wulf	JACS	57	(1935)	1464
		750-3650	Sol	Band freq	Bergmann	JACS	74	(1952)	1263
		665-5000	L	Band freq	Zeiss	JACS	75	(1953)	897
		-	-	Group freq	Pinder	JCS	-	(1954)	113
		-	Sol	Substitution effect	Potts	AC	27	(1955)	1027
		1.4 μ	Sol	H bond	Goldman	JOC	23	(1958)	751
$C_8H_{10}O$	2-Phenyl-1-ethanol	700-1500	L	Spec, Assign	Richards	JCS	-	(1947)	1260
		2-16 μ	L	Spec	Entel	JACS	73	(1951)	4152
		-	L	Ident	Searles	JACS	76	(1954)	2313
		-	Sol	Substitution effect	Potts	AC	27	(1955)	1027
		-	Sol	H bond	Kuhn	JACS	79	(1957)	6566
		8-13 μ	-	Spec	Eliel	SA	10	(1958)	423
$C_8H_{10}O$	Phenyl ethyl ether	8-3.8 μ	L	Spec	Taylor	JACS	46	(1924)	1606
		1050-2000	-	Absorption freq, Spec	Barnes	IEC	15	(1943)	659
		5-6 μ	-	Spec	Young	AC	23	(1951)	709
		2-12 μ	Sol	Spec, Struct	O'Connor	JACS	76	(1954)	2368
		1500-5000	Sol	Group freq	Briggs	AC	29	(1957)	904
		3100-2800	Sol	Group Study	Henbest	JCS	-	(1957)	1462
		4000-600	Sol	Substitution effect	Katritzky	JCS	-	(1958)	2192
		900-3000	Sol	Group freq, Assign	Katritzky	JCS	-	(1958)	4155
$C_8H_{10}O_2$	5-Carboxy bicyclo [2.2.1]2-heptene	-	-	Group freq	Mcbee	JACS	77	(1955)	915
$C_8H_{10}O_2$	2-Carboxy-bicyclo [2.2.1]-5-heptene	650-3100	Sol	Spec	Hembest	JCS	-	(1957)	997
$C_8H_{10}O_2$	3-Carboxy-nortri-cyclene	2.5-10 μ	Sol	Spec	Roberts	JACS	72	(1950)	3116

$C_8H_{10}O_2$	7-Carboxytricyclo $[2.2.1.0^{2,6}]$-heptane	2.3-15.6μ	S	Table, I	Kwart	JACS	76	(1954)	4072
$C_8H_{10}O_2$	Di-t-butyl peroxide	665-5000	L,G	Freq	Ory	AC	32	(1960)	500
$C_8H_{10}O_2$	m-Dimethoxybenzene	700-1700	Sol	Substitution effect	Katritzky	JCS	-	(1959)	2058
		900-3000	Sol	Group freq, Assign	Katritzky	JCS	-	(1959)	2062
$C_8H_{10}O_2$	p-Dimethoxybenzene	1050-2000	-	Spec	Barnes	IEC	15	(1943)	659
		700-1700	L,S	Spec, Change of state	Richards	PRS	195	(1948)	1
		1500-5000	Sol	Group freq	Briggs	AC	29	(1957)	904
		900-3000	Sol	Group freq, Assign	Lagrange	SA	12	(1958)	305
		700-1700	Sol	Substitution effect	Katritzky	JCS	-	(1959)	2051
$C_8H_{10}O_2$	4,5-Dimethylcatechol	3μ	Sol	Stretch freq, Hammett const	Ingraham	JACS	74	(1952)	2297
$C_8H_{10}O_2$	o-Ethoxyphenol	3μ	Sol	Freq, H bond	Flett	SA	10	(1958)	21
		3500-3800	Sol	Freq, Hammett const	Puttnam	JCS	-	(1960)	5100
$C_8H_{10}O_2$	2-Ethylresorcinol	750-1950	-	Spec	Barnes	IEC	15	(1943)	659
$C_8H_{10}O_2$	2-Hydroxy-(Δ^1-cyclohexene-1-yl) acetic acid lactone	1550-1850	Sol	Freq	Jones	CJC	37	(1959)	2007
$C_8H_{10}O_2$	3-Hydroxymethyl-p-cresol	700-3600	S,L, Sol	Spec, Assign	Richards	JCS	-	(1947)	1260
$C_8H_{10}O_2$	m-Methoxybenzyl alcohol	-	-	Freq, Rotation iso	Oki	BCSJ	32	(1959)	955
$C_8H_{10}O_2$	o-Methoxybenzyl alcohol	6900-7200	Sol	Spec, Group anal	Wulf	JACS	57	(1935)	1464
		-	Sol	Spec, Struct	Pauling	JACS	58	(1936)	94
$C_8H_{10}O_2$	p-Methoxybenzyl alcohol	-	-	Ident	Kochi	JACS	75	(1953)	3443
		-	-	Freq, Rotational iso	Oki	BCSJ	32	(1959)	955

$C_8H_{10}O_2$	2,5-endo-Methylene-1,2,5,6-tetrahydrobenzoic acid	2.5-15μ	Sol	Spec	Roberts	JACS	72	(1950)	3116
$C_8H_{10}O_2$	2,5-exo-Methylene-1,2,5,6-tetrahydrobenzoic acid	2.5-15μ	Sol	Spec	Roberts	JACS	72	(1950)	3116
$C_8H_{10}O_2$	Methyl 2,4,6-heptatrieneoate	1-15μ	-	Spec, Struct	Cairns	JACS	74	(1952)	5636
$C_8H_{10}O_2$	2-Phenoxyethanol	7-14μ	L	Rocking freq	Miyake	JACS	82	(1960)	3040
$C_8H_{10}O_2$	Phenyl-1,2-ethanediol	-	Sol	Substitution effect	Potts	AC	27	(1955)	1027
$C_8H_{10}O_2$	1-Phenyl-1-ethyl hydroperoxide	5-15μ	Sol	Spec, Band study	Minkoff	PRS	224	(1954)	176
$C_8H_{10}O_2$	Phthalyl alcohol	2-16μ	S	Spec	Entel	JACS	74	(1952)	441
$C_8H_{10}O_2$	Δ^4-Tetrahydrophthalaldehyde	2-16μ	L	Spec, Stretch freq	Hufford	JACS	74	(1952)	3014
$C_8H_{10}O_2$	Veratrole	2-15μ	L,Sol	Group freq	Briggs	AC	29	(1957)	904
		-	-	Group study	Henbest	JCS	-	(1957)	1462
		-	Sol	Assign, Shift	Flaig	A	626	(1959)	215
		800-1600	-	I, Ext coeff	Katritzky	JCS	-	(1959)	3670
		900-1500	-	Spec, H bond	Lindberg	SK	32b	(1959)	193
$C_8H_{10}O_2 \cdot 1/2\ H_2O$	3,4-Dihydroxy-3,4-dimethyl-1,5-hexadiyne hemihydrate	-	-	Band freq	Davis	JACS	77	(1955)	3284
$C_8H_{10}O_2S$	p-Tolyl methyl sulfone	-	S,Sol	Substitution effect	Momose	CPBT	6	(1958)	412

$C_8H_{10}O_3$	2-Acetylcyclo hexane-1,3-dione	3.8-13.9μ	S,Sol	Table, Group freq, I	Smith	JCS	-	(1953)	803
		1500-2700	L,Sol	Assign, H bond	Chan	JCS	-	(1956)	3495
$C_8H_{10}O_3$	Crotonic anhydride	1050-2000	-	Spec, Absorption freq	Barnes	IEC	15	(1943)	659
$C_8H_{10}O_3$	cis-1,2-Cyclohexane-dicarboxylic acid (anhydride)	1600-1800	S,Sol	Freq	Hall	JACS	80	(1958)	6428
$C_8H_{10}O_3$	cis-1,3-Cyclohexane-dicarboxylic acid (anhydride)	1600-1800	S,Sol	Freq	Hall	JACS	80	(1958)	6428
$C_8H_{10}O_3$	2,4-Di-(hydroxy-methyl) phenol	-	-	Ident	Martin	JACS	74	(1952)	4208
$C_8H_{10}O_3$	2,6-Dimethoxyphenol	6900-7200	Sol	Band freq	Wulf	JACS	58	(1936)	2287
		2.7-3.0μ	Sol	H bond	Baker	JACS	80	(1958)	5358
		900-1500	-	Spec, H bond	Lindberg	SK	32	(1959)	193
		3500-3800	Sol	Freq, Hammett const	Puttnam	JCS	-	(1960)	5100
		-	Sol	H bond, Stretch freq	Reeves	CJC	38	(1960)	1249
$C_8H_{10}O_3$	p-Hydrophenoxy-acetic acid	-	Sol	H bond	Oki	BCSJ	33	(1960)	119
$C_8H_{10}O_3$	Methyl β (2-furyl) propionate	800-1700	Sol	Freq, Assign	Katritzky	JCS	-	(1959)	657
		-	-	Band study, Assign	Katritzky	SA	16	(1960)	964
		800-1500	Sol	Assign, Band study	Katritzky	SA	16	(1960)	954
$C_8H_{10}O_3$	Nepetic anhydride	-	Sol	Band freq	Mcelvane	JACS	77	(1955)	1599
$C_8H_{10}O_3$	n-Propyl 2-furoate	800-1700	Sol	Freq, Assign	Katritzky	JCS	-	(1959)	657
		800-1500	Sol	Band study, Assign	Katritzky	SA	16	(1960)	954
		-	-	Band study, Assign	Katritzky	SA	16	(1960)	964
$C_8H_{10}O_3$	Terrein	-	S,Sol	Group freq, Struct	Grove	JCS	-	(1954)	4693
		-	-	Group freq, Struct	Barton	JCS	-	(1955)	1028

$C_8H_{10}O_3S$	Ethyl benzene-sulphonate	400-4000	L	Spec, Assign	Freeman	AJC	10 (1957)	239
$C_8H_{10}O_3S$	p-Methoxyphenyl methyl sulfone	-	Sol	I, Struct	Rogers	JACS	78 (1956)	1790
$C_8H_{10}O_3S$	Methyl o-toluene-sulphonate	400-4000	L	Spec, Assign	Freeman	AJC	10 (1957)	239
$C_8H_{10}O_3S$	Methyl p-toluene-sulphonate	1000-1500	Sol	Spec	Schreiber	AC	21 (1949)	1168
		-	-	Band freq	Bomstein	AC	25 (1953)	512
$C_8H_{10}O_4$	dl-Anhydromono-crotalic acid	709-2660	S	Table, Group freq	Ames	JCS	- (1954)	375
$C_8H_{10}O_4$	Butyl acetylene-dicarboxylate	2-15μ	L	Spec, Assign	Walton	JACS	79 (1957)	3985
$C_8H_{10}O_4$	s-Butyl acetylene-dicarboxylate	2-15μ	L	Spec, Assign	Walton	JACS	79 (1957)	3985
$C_8H_{10}O_4$	4-Methoxycarbonyl-4-hydroxy-2,3-dimethyl-but-2-enoic lactone	751-3584	L	Table, Group freq	Ames	JCS	- (1954)	375
$C_8H_{10}O_4$	α-Methyl-α-ethylidine-glutaconic acid	-	S	Band freq	Adams	JACS	75 (1953)	4638
$C_8H_{10}O_4$	Octa-2,4-dienedioic acid	-	S	I	Jones	JCS	- (1954)	3208
$C_8H_{10}O_4$	Oct-4-ynedioic acid	-	S	Band study	Jones	JCS	- (1954)	3208
$C_8H_{10}O_4$	Penicillic acid	650-4000	S,Sol	Spec	Ford	JACS	72 (1950)	4529
		-	S	Group freq	Grove	JCS	- (1952)	3345
$C_8H_{10}O_4$	β-Propionylglutaro-bis-lactone	-	-	Band freq, Struct	Mehta	JACS	75 (1953)	240

$C_8H_{10}O_4 \cdot H_2O$	Penicillic acid hydrate	-	S	Group freq	Grove	JCS	-	(1952)	3345
$C_8H_{10}S$	2-(2-Butenyl)-thiophene	-	-	Absorption band, Assign	Pines	JACS	73	(1951)	5173
$C_8H_{10}S$	2-(3-Butenyl)-thiophene	-	-	Band study, Assign	Pines	JACS	73	(1951)	5173
$C_8H_{11}DO_2$	5,5-Dimethylcyclo-hexane-1-3-dione-d_1	2000-3500	Sol	Spec, Assign	Bellamy	PRS	257	(1960)	98
$C_8H_{11}D_3O_2$	Cyclohexanol acetate-d_3	-	Sol	Table, Bending freq, Struct	Jones	JACS	74	(1952)	5662
$C_8H_{11}Br$	3-Bromo-1,5-cyclo-octadiene	2.5-15μ	-	Spec	Cope	JACS	72	(1950)	2510
$C_8H_{11}Br$	1-Bromo-2(trans)-n-octen-4-yne	- -	- L	Band freq Bending freq	Celmer Crombie	JACS JCS	75 -	(1953) (1955)	3430 1007
$C_8H_{11}Br$	3-Bromo-1-octen-4-yne	-	Sol	Group freq	Celmes	JACS	75	(1953)	3430
$C_8H_{11}BrO$	Isopropylvinylbromo-ethynylcarbinol	-	-	Band study	Mclamore	JOC	20	(1955)	109
$C_8H_{11}BrO_4$	α,α-Dimethyl-γ-carboxy-γ-bromovalerolactone	-	-	Group freq	Mcelvain	JACS	75	(1953)	3987
$C_8H_{11}ClSi$	Dimethylphenylchloro-silane	2-30μ	Sol	Spec, Struct, Anal	Grenoble	APS	14	(1960)	85
$C_8H_{11}FO_5$	Diethyl fluoro-oxaloacetate	-	Sol	Band freq	Blank	JCS	-	(1955)	2190
$C_8H_{11}F_3O_2$	2,2,2-Trifluoroethyl 2-hexenoate	-	L	Band freq	Filler	JACS	76	(1954)	1376

$C_8H_{11}IO_2$	β-Iodocyclohexane-acetic acid-γ-lactone	-	Sol	Struct	Vantamelen	JACS	76 (1954) 2315
$C_8H_{11}IO_2$	δ-Iodocyclohexane-acetic acid-γ-lactone	-	Sol	Struct	Vantamelen	JACS	76 (1954) 2315
$C_8H_{11}N$	N,N-Dimethylaniline	1-12μ	L	Spec	Bell	JACS	47 (1925) 2192
		8-2.8μ	L	Spec, Bond study	Ellis	JACS	49 (1927) 347
		-	-	Band freq	Bonino	TFS	25 (1929) 876
		1050-1750	-	Spec	Barnes	IEC	15 (1943) 659
		700-1400	L	Spec	Whiffen	TFS	41 (1945) 200
		700-1400	L	Spec, Struct	Burton	JCS	- (1950) 1316
		3-15μ	L	Spec, Bond study	Lothrop	JACS	73 (1951) 3581
		-	-	Anal	Dannley	JOC	20 (1955) 92
		625-900	-	Substitution effect	Margoshes	SA	7 (1955) 14
		2800-3000	L	Group study	Braunholtz	JCS	- (1958) 2780
		2900-3100	Sol	Freq	Hill	JCS	- (1958) 760
		4000-600	Sol	Group freq	Katritzky	JCS	- (1958) 4155
		-	-	Absorption, Assign, Struct	Katritzky	JCS	- (1959) 3674
$C_8H_{11}N.HBr$	N,N-Dimethylaniline hydrobromide	1000-1500	S,Sol	Band study	Chenon	CJC	36 (1958) 1181
$C_8H_{11}N.HCl$	N,N-Dimethylaniline hydrochloride	1000-1500	S,Sol	Band study	Chenon	CJC	36 (1958) 1181
$C_8H_{11}N.HI$	N,N-Dimethylaniline hydriodide	1000-1500	S,Sol	Band study	Chenon	CJC	36 (1958) 1181
$C_8H_{11}N$	2,4-Dimethylaniline	6500-6800	Sol	Band study	Liddel	JACS	55 (1933) 3574
		1050-1800	-	Spec	Barnes	IEC	15 (1943) 659
$C_8H_{11}N$	2,5-Dimethylaniline	6500-6800	Sol	Band study	Liddel	JACS	55 (1933) 3574
$C_8H_{11}N$	2,6-Dimethylaniline	6500-6800	Sol	Band study	Liddel	JACS	55 (1933) 3574
		1050-1800	-	Spec	Barnes	IEC	15 (1943) 659

$C_8H_{11}N$	3,4-Dimethylaniline	-	Sol	Freq, FC	Krueger	PRS	243	(1957)	143
$C_8H_{11}N$	3,5-Dimethylaniline	6500-6800	Sol	Band study	Liddel	JACS	55	(1933)	3574
		700-1000	S,Sol	Bending freq	Bellamy	JCS	-	(1955)	2818
		2600-800	Sol	Struct, Anal	Whetsel	AC	30	(1958)	1598
		-	Sol	Freq	Bryson	JACS	82	(1960)	4858
$C_8H_{11}N$	N-Ethylaniline	1-12μ	L	Spec	Bell	JACS	47	(1925)	2192
		8-2.8μ	L	Spec, Bond study	Ellis	JACS	49	(1927)	347
		6500-6850	Sol	Band study	Liddel	JACS	55	(1933)	3574
		-	-	FC	Richards	TFS	44	(1948)	40
		-	Sol	Vib, I	Richards	TFS	45	(1949)	874
		-	Sol	Band freq, Ext coeff, I	Russell	JCS	-	(1955)	483
		600-4000	L	Spec, Band study	Heacock	CJC	34	(1956)	1782
		-	L	Freq	Hadzi	JCS	-	(1957)	843
		8-2.5μ	Sol	Spec, Quant anal	Whetsel	AC	29	(1957)	1006
		2800-3000	L,S	Group study	Braunholtz	JCS	-	(1958)	2780
		2900-3100	Sol	Freq	Hill	JCS	-	(1958)	760
		2100-1400	Sol	Band study, Anal	Whetsel	AC	30	(1958)	1594
		-	Sol	Band freq	Bryson	JACS	82	(1960)	4858
		3300-3500	S,Sol	Stretch freq, Config	Moritz	SA	16	(1960)	1176
$C_8H_{11}N$	2-Isopropylpyridine	2-15μ	L	Freq	Podall	AC	29	(1957)	1423
$C_8H_{11}N$	3-Isopropylpyridine	2-15μ	L	Freq	Podall	AC	29	(1957)	1423
$C_8H_{11}N$	4-Isopropylpyridine	2-15μ	L	Freq	Podall	AC	29	(1957)	1423
$C_8H_{11}N.HCl$	Isopropylpyridine hydrochloride	-	-	Group Freq	Witkop	JACS	76	(1954)	5597
$C_8H_{11}N$	N-Methylbenzylamine	2800-3000	L	Group study	Braunholtz	JCS	-	(1958)	2780
		3.38-3.60μ	S	Freq	Wright	JOC	24	(1959)	1362
$C_8H_{11}N$	2-Methyl-3-ethyl pyridine	2-15μ	Sol	Table	Podall	AC	29	(1957)	1423

$C_8H_{11}N$	2-Methyl-4-ethyl-pyridine	-	-	Ident	Vanmeter	AC	24	(1952)	1758
		-	L	Absorption study, Anal	Cook	AC	28	(1956)	993
$C_8H_{11}N$	2-Methyl-5-ethyl-pyridine	-	L	Absorption study, Anal	Cook	AC	28	(1956)	993
		2-15 μ	Sol	Freq, Table	Podall	AC	29	(1957)	1423
		400-1700	L	Quant anal, Table	Bohon	AC	30	(1958)	245
$C_8H_{11}N$	2-Methyl-6-ethyl-pyridine	-	L	Absorption study, Anal	Cook	AC	28	(1956)	993
		700-1300	-	Freq	Bohon	AC	30	(1958)	245
$C_8H_{11}N$	4-Methyl-2-ethyl-pyridine	-	-	Ident	Vanmeter	AC	24	(1952)	1758
$C_8H_{11}N$	4-Methyl-3-ethyl-pyridine	-	L	Absorption study, Anal	Cook	AC	28	(1956)	993
		400-1700	Sol	Quant anal, Table	Bohon	AC	30	(1958)	245
$C_8H_{11}N$	N-Methyl-m-toluidine	2900-3100	Sol	Freq	Hill	JCS	-	(1958)	760
$C_8H_{11}N$	N-Methyl-o-toluidine	2900-3100	Sol	Freq	Hill	JCS	-	(1958)	760
$C_8H_{11}N$	N-Methyl-p-toluidine	6-2.0 μ	L	Bond study	Ellis	JACS	50	(1928)	685
		6500-6800	Sol	Band study	Liddel	JACS	55	(1933)	3574
		700-1400	L	Spec	Whiffen	TFS	41	(1945)	200
		-	-	FC	Richards	TFS	44	(1948)	40
		-	L	Freq	Hadzi	JCS	-	(1957)	843
		2900-3100	Sol	Group freq	Hill	JCS	-	(1958)	760
$C_8H_{11}N$	2-Octynonitrile	2-15 μ	L	Spec	Wotiz	JACS	71	(1949)	3441
$C_8H_{11}N$	3-Octynonitrile	2-15 μ	L	Spec	Wotiz	JACS	71	(1949)	3441
$C_8H_{11}N$	4-Octynonitrile	2-15 μ	L	Spec	Wotiz	JACS	71	(1949)	3441
$C_8H_{11}N$	5-Octynonitrile	2-15 μ	L	Spec	Wotiz	JACS	71	(1949)	3441
$C_8H_{11}N$	6-Octynonitrile	2-15 μ	L	Spec	Wotiz	JACS	71	(1949)	3441
$C_8H_{11}N$	7-Octynonitrile	2-15 μ	L	Spec	Wotiz	JACS	71	(1949)	3441

$C_8H_{11}N$	β-Phenylethylamine	6400-6800	Sol	Band study	Liddel	JACS	55 (1933) 3574
$C_8H_{11}N$	4-n-Propylpyridine	-	L	Absorption study, Anal	Cook	AC	28 (1956) 993
$C_8H_{11}N$	2,3,5-Trimethyl-pyridine	-	-	Ident	Vanmeter	AC	24 (1952) 1758
		-	L	Absorption study, Anal	Cook	AC	28 (1956) 993
$C_8H_{11}N$	2,3,6-Trimethyl-pyridine	-	-	Ident	Vanmeter	AC	24 (1952) 1758
		-	-	Ident, Band freq	Brown	JACS	76 (1954) 5556
		-	L	Absorption study, Anal	Cook	AC	28 (1956) 993
		2-15μ	L	Table	Podall	AC	29 (1957) 1423
		700-1300	-	Freq	Bohon	AC	30 (1958) 245
$C_8H_{11}N$	2,4,5-Trimethyl-pyridine	-	L	Absorption study, Anal	Cook	AC	28 (1956) 993
$C_8H_{11}N$	2,4,6-Trimethyl-pyridine	800-1900	-	Spec	Barnes	IEC	15 (1943) 659
		-	-	Ident	Vanmeter	AC	24 (1952) 1758
		-	-	Purity determination	Brown	JACS	76 (1954) 5556
		-	L	Absorption study, Anal	Cook	AC	28 (1956) 993
		2-15μ	L	Freq	Podall	AC	29 (1957) 1423
		400-1700	L	Spec, Quant anal	Bohon	AC	30 (1958) 245
$C_8H_{11}N.HCl$	N-Ethylaniline hydrochloride	600-4000	S	Spec, Band study	Heacock	CJC	34 (1956) 1782
$C_8H_{11}NO$	2-Cyano-2-methyl-cyclohexanone	-	Sol	Band freq	Bellamy	JCS	- (1954) 4487
$C_8H_{11}NO$	2,4-Dimethyl-3-acetylpyrrole	-	Sol	Band freq	Cookson	JCS	- (1953) 2789
		500-4000	Sol	Spec, Freq, Stretch freq	Eisner	JCS	- (1958) 971
$C_8H_{11}NO$	2-Dimethylamino-phenol	2.7-3.0μ	Sol	H bond	Baker	JACS	80 (1958) 5358
$C_8H_{11}NO$	2,6-Dimethyl-4-methoxypyridine	1400-1700	S	Freq	Tsubomura	JCP	28 (1958) 355

$C_8H_{11}NO$	m-Ethoxyaniline	-	Sol	Freq, FC	Krueger	PRS	243	(1957)	143
		2600-800	Sol	Band study, Struct, Anal	Whetsel	AC	30	(1958)	1598
		700-1700	Sol	Substitution effect	Katritzky	JCS	-	(1959)	2058
		900-3000	Sol	Group freq, Assign	Katritzky	JCS	-	(1959)	2062
		-	-	Absorption study, Freq, Assign	Katritzky	JCS	-	(1959)	3674
		-	Sol	Freq	Bryson	JACS	82	(1960)	4858
$C_8H_{11}NO$	o-Ethoxyaniline	2600-800	Sol	Substitution effect	Whetsel	AC	30	(1958)	1598
$C_8H_{11}NO$	p-Ethoxyaniline	-	Sol	Freq	Krueger	PRS	243	(1957)	143
		2600-800	Sol	Band study, Struct, Anal	Whetsel	AC	30	(1958)	1598
		700-1700	Sol	Freq, Assign	Katritzky	JCS	-	(1959)	2051
		900-3000	Sol	Group freq; Assign	Katritzky	JCS	-	(1959)	2062
		-	-	Absorption study, Freq, Assign	Katritzky	JCS	-	(1959)	3674
$C_8H_{11}NO$	O-Ethylaminophenol	-	Sol	Spec, Band freq	Witkop	JACS	74	(1952)	3861
$C_8H_{11}NO$	5-Ethyl-2-pyridyl-methanol	-	-	Group freq, Struct	Bullitt	JACS	76	(1954)	1370
$C_8H_{11}NO$	p-Hydroxyethyl-aniline	2600-800	Sol	Band study, Struct, Anal	Whetsel	AC	30	(1958)	1598
$C_8H_{11}NO$	N-Phenyl-2-amino-ethanol-1	-	Sol	H bond, Group freq	Bergmann	JACS	75	(1953)	68
		-	S,Sol	Group freq	Boxter	JCS	-	(1955)	669
		2100-1400	Sol	Anal	Whetsel	AC	30	(1958)	1594
$C_8H_{11}NO$	2-Propoxypyridine	4000-650	L	Spec	Adams	JACS	71	(1949)	3826
$C_8H_{11}NO$	N-n-Propyl-2-pyridone	4000-650	S	Spec	Adams	JACS	71	(1949)	3826
$C_8H_{11}NO.HCl$	Tyraminehydro-chloride	6-11μ	Sol	Spec	Parker	N	187	(1960)	386

$C_8H_{11}NO_2$	Cyclohexane-1,3-dicarboximide	1600-1800	Sol	Freq	Hall	JACS	80	(1958)	6428
$C_8H_{11}NO_2$	3,5-Dimethoxyaniline	-	Sol	Freq	Bryson	JACS	82	(1960)	4858
$C_8H_{11}NO_2$	2,6-Dimethoxy-4-methylpyridine	821-2959	L	Table, Band freq	Ames	JCS	-	(1953)	3008
$C_8H_{11}NO_2$	γ-Ethoxy-β-methyl-pyridine-N-oxide	900-3000	Sol	Group freq, Assign	Katritzky	JCS	-	(1959)	2062
$C_8H_{11}NO_2$	Ethyl 2-cyanopent-2-enoate	-	Sol	Freq, I	Felton	JCS	-	(1955)	2170
$C_8H_{11}NO_2$	6-Methoxy-1,4-dimethylpyrid-2-one	769-1656 -	S S	Table, Band freq Group freq	Ames Ames	JCS JCS	- -	(1953) (1955)	3008 631
$C_8H_{11}NO_2S$	N-Formyl-2-(-5-methoxy-2-thienyl) ethylamine	-	Sol	Group freq	Herz	JACS	77	(1955)	3529
$C_8H_{11}NO_2S$	N-Methyl-N-phenyl-methanesulphonamide	4000-600 874-1470	Sol Sol	Substitution effect Freq, Assign, Ext coeff	Katritzky Katritzky	JCS JCS	- -	(1958) (1960)	4155 4497
$C_8H_{11}NO_2S$	N-Methyltoluene-p-sulphonamide	600-1700	S,Sol	Freq, Assign	Hadzi	JCS	-	(1957)	847
$C_8H_{11}NO_2S.HCl$	p-Aminomethylphenyl methyl sulfone hydrochloride	-	S	Substitution effect	Momose	CPBT	6	(1958)	412
$C_8H_{11}NO_3$	dl-Anhydromono-crotalamide	765-3345	S	Table, Band freq	Ames	JCS	-	(1954)	375
$C_8H_{11}NO_3$	3-Carbethoxy-2-methyl-4-oxo-Δ^2-pyrroline	2-8μ	S	Table, I	Davoll	JCS	-	(1953)	3802

$C_8H_{11}NO_3$	2,6-Diketocyclohexyl methyl ketoxime	3.18-13.53μ	S	Table, I	Smith	JCS	-	(1953)	803
$C_8H_{11}NO_3$	2,6-Dimethoxy-4-methylpyridine-N-oxide	-	S	Group freq	Ames	JCS	-	(1955)	631
$C_8H_{11}NS$	n-Propyl 2-pyridyl sulfide	1575-650	-	Spec, Group anal	Tarbell	JACS	74	(1952)	48
$C_8H_{11}N_3$	2-N,N-Dimethylamino-4-vinylpyrimidine	-	L	Group freq	Overberger	JACS	76	(1954)	1879
$C_8H_{11}N_3OS$	4-o-Methoxyphenylthiosemicarbazide	700-1700	S	Spec, Struct, Taut, Assign	Lieber	CJC	36	(1958)	801
$C_8H_{11}N_3OS$	3-Methylpyrrolidino (1':2'-1:5)-2-thiohydantoin	2500-800	S	Band assign	Elmore	JCS	-	(1958)	3489
$C_8H_{11}N_3O_2$	4-Hydroxy-5-acetamido-2,6-dimethylpyrimidine	2-15μ	S	Spec, Assign, Group freq	Brownlie	JCS	-	(1950)	3062
$C_8H_{11}N_3S$	4-Benzylthiosemicarbazide	700-1700	S	Spec, Struct, Taut, Assign	Lieber	CJC	36	(1958)	801
$C_8H_{11}N_3S$	4-p-tolylthiosemicarbazide	700-1700	S	Spec, Struct, Taut, Assign	Lieber	CJC	36	(1958)	801
$C_8H_{11}O_2P$	p-Ethylbenzenephosphinic acid	2-21μ	S	Spec, Struct anal	Daasch	AC	23	(1951)	853
		600-4000	S	Group study	Braunholtz	JCS	-	(1959)	868
		600-4000	S	Group study	Braunholtz	JCS	-	(1959)	868
$C_8H_{11}O_2P$	Ethyl phenylphosphonate	2-21μ	Sol	Spec, Struct anal	Daasch	AC	23	(1951)	853
		-	-	Band freq, Shift	Bell	JACS	76	(1954)	5185

		-	-	Band freq	Bennett	JCS	-	(1954)	3598
$C_8H_{11}O_3P$	Dimethylphenylphosphite	2.5-25μ	Sol	Freq	Nyquist	APS	11	(1957)	161
C_8H_{12}	Bicyclo[2.2.2]-2-octene	2-15μ	Sol	Spec	Hine	JACS	77	(1955)	594
C_8H_{12}	2-t-Butylbut-1-en-3-yne	-	-	Spec, Group study	Petrov	ZOK	27	(1957)	1167
C_8H_{12}	4-Butyl-1-buten-3-yne	-	-	Spec, Group study	Petrov	ZOK	27	(1957)	1167
C_8H_{12}	1,3-Cyclooctadiene	2.5-15μ	-	Spec	Cope	JACS	72	(1950)	1128
C_8H_{12}	1,5-Cyclooctadiene	-	-	Iso	Cope	JACS	72	(1950)	2510
		-	-	Anal	Reed	JCS	-	(1954)	1931
C_8H_{12}	Cyclooctyne	-	L	Band freq	Blomquist	JACS	75	(1953)	2153
C_8H_{12}	1,2-Dimethylene-cyclohexane	-	-	Spec	Bailey	JACS	77	(1955)	1606
C_8H_{12}	2,5-Dimethylhexatriene	1200-1800	-	Spec	Barnes	IEC	15	(1943)	659
C_8H_{12}	2,5-Dimethyl-1-trans-3,5-hexatriene	-	L	Group freq, I	Allan	JCS	-	(1955)	1874
C_8H_{12}	2,4-Dimethylhex-3-en-5-yne	-	-	Group freq	Bergmann	JAP	3	(1953)	97
C_8H_{12}	trans-1,2-Divinyl-cyclobutane	6.5-14μ	L	Spec	Reed	JCS	-	(1951)	685
C_8H_{12}	4-Ethenyl-1-cyclo-hexane	6.5-14μ	L	Spec	Reed	JCS	-	(1951)	685
C_8H_{12}	1-Ethylcyclohexa-1,4-diene	-	-	Ident, Band freq	Pinder	JCS	-	(1954)	113
C_8H_{12}	2-Isobutylbut-1-en-3-yne	-	-	Group Freq	Bergmann	JAP	3	(1953)	97

C_8H_{12}	2,4,6-Octatriene	1400-2000	Sol	Spec	Bloust	JACS	70	(1948)	194
C_8H_{12}	Pentamethylene-allene	843-2960	-	Table	Bailey	JOC	20	(1955)	95
$C_8H_{12}D_6$	n-Octane-1,1,1,8,8,8-d_6	600-1500	S	Spec, Freq, Assign	Pimental	JCP	23	(1955)	376
$C_8H_{12}BrNO$	2-Bromotropinone	-	Sol	Band freq	Nickon	JACS	77	(1955)	4094
$C_8H_{12}ClNO_3$	Ethyl N-allyl-N-chloroacetyl-carbamate	650-4000	Sol	Spec	Pianka	JCS	-	(1960)	983
$C_8H_{12}Cl_2$	1,1-Dichloro-2-cyclohexylethylene	7.5-14μ	-	Quant anal	Schmerling	JACS	71	(1949)	2015
$C_8H_{12}Cl_2N_2O_2$	3,6-Bis-(β-Chloro-ethyl)-2,5-diketo-piperazine	2-16μ	S	Spec, Band freq	Goering	JACS	73	(1951)	4737
$C_8H_{12}F_3NO$	N-Cyclohexyl-trifluoro-acetamide	-	Sol	Stretch freq	Bourne	JCS	-	(1952)	4014
$C_8H_{12}NO_2$	2,5-Dimethoxyaniline	2600-800	Sol	Struct	Whetsel	AC	30	(1958)	1598
$C_8H_{12}N_2$	Crotonaldehyde azine	1400-2000	Sol	Spec	Blout	JACS	70	(1948)	194
$C_8H_{12}N_2$	2,4-Dicyano-2-methylpentane	-	-	Band freq	Gingras	JCS	-	(1954)	3508
$C_8H_{12}N_2$	p-N,N-Dimethylamino-aniline	3398-3464	Sol	Freq, Chem properties	Flett	TFS	44	(1948)	767
		-	Sol	Solvent effect, Freq	Krueger	PRS	243	(1957)	143
		700-1700	Sol	Substitution effect	Katritzky	JCS	-	(1959)	2051
		-	-	Absorption, Freq assign	Katritzky	JCS	-	(1959)	3674

$C_8H_{12}N_2$	Suberonitrile	-	-	Band freq	Kitson	AC	24	(1952)	334
$C_8H_{12}N_2$	Tetramethyl-succinonitrile	-	Sol	Ext coeff	Cross	TFS	47	(1951)	354
		-	-	Band freq	Kitson	AC	24	(1952)	334
		-	-	Band freq	Gingras	JCS	-	(1954)	3508
		-	S	Ident	Hammond	JACS	77	(1955)	3249
$C_8H_{12}N_2O$	4-(2'-Cyanoethyl)-amino-3-pentene-2-one	3800-650	S	Table	Cromwell	JACS	71	(1949)	3337
		3-6 μ	S,Sol	H bond, Struct	Weinstein	JOC	23	(1958)	1618
$C_8H_{12}N_2O.HCl$	2-Isopropyl-4-methyl-6-hydroxypyrimidine hydrochloride	-	-	Ident	Snyder	JACS	76	(1954)	118
$C_8H_{12}N_2O_2$	2,4-Diethoxy-pyrimidine	2-25 μ	S	Spec, Group freq	Short	JCS	-	(1952)	168
$C_8H_{12}N_2O_2$	Hexamethylene diisocyanate	-	Sol	Band freq, I	Davison	JCS	-	(1953)	3712
		4-7.5 μ	S	Assign	Barr	JCS	-	(1956)	3428
$C_8H_{12}N_2O_2S$	1-Aminobenzene-4-sulfone-dimethyl amide	-	-	Spec	Merian	HCA	43	(1960)	1122
$C_8H_{12}N_2O_3$	5,5-Diethylbar-bituric acid	2-16 μ	Sol	Spec, Table, Freq	Uneberger	AC	24	(1952)	1309
		2.5-16 μ	S	Spec	Levi	AC	28	(1956)	1591
		-	-	Ident	Cleverley	ANA	85	(1960)	582
$C_8H_{12}N_2O_4$	Glyoxal-bis(carbe-thoxyimide	-	S	Struct	Gaylord	JOC	20	(1955)	546
$C_8H_{12}N_4$	α, α'-Azodiisobutyro-nitrile	-	Sol	Ext coeff	Cross	TFS	47	(1951)	354
		-	-	Band freq	Kitson	AC	24	(1952)	334
		3.3-11.5 μ	-	Table, Struct	Beringer	JACS	75	(1953)	3984
$C_8H_{12}O$	1-Acetylcyclohexene	-	-	Band freq	Henbest	JCS	-	(1952)	1150
		-	Sol	Band freq	Rosenfelter	JCS	-	(1954)	2955
		1600-1700	L	Stretch freq, Spec	Braude	JCS	-	(1955)	3766

$C_8H_{12}O$	Cis-α-Bicyclo[3.3.0]-octanone	2-16μ	Sol	Spec	Roberts	JACS	74	(1952)	2278
$C_8H_{12}O$	Cis-β-Bicyclo[3.3.0]-octanone	2-16μ	Sol	Spec	Roberts	JACS	74	(1952)	2278
$C_8H_{12}O$	trans-β-Bicyclo [3.3.0]-octanone	2-16μ	Sol	Spec	Roberts	JACS	74	(1952)	2278
$C_8H_{12}O$	2-s-Butylfuran	5.91-11.26μ	-	Table, I, Ext coeff	Hurd	JACS	76	(1954)	50
$C_8H_{12}O$	2-t-Butylfuran	6.28-11.25μ	-	Table, I, Ext coeff	Hurd	JACS	76	(1954)	50
$C_8H_{12}O$	endo-4-Diethoxy-bicyclo[2:2:1]hept-1-ene	-	-	Group detection	Henbest	JCS	-	(1957)	1462
$C_8H_{12}O$	4-Ethylcyclohex-2-enone	-	-	Group freq	Pinder	JCS	-	(1954)	113
$C_8H_{12}O$	6-Ethylcyclohex-2-enone	-	-	Group freq, Ident	Pinder	JCS	-	(1954)	113
$C_8H_{12}O$	1-Ethynylcyclo-hexanol	3100-3400	L	Ident, Freq	Filler	CIL	-	(1957)	1322
$C_8H_{12}O$	Ethynylmethyl(1-methylcyclopropyl) carbinol	1-2.7μ	Sol	Config	Washburn	JACS	80	(1958)	504
$C_8H_{12}O$	2-Hydroxymethyl-bicyclo[2.2.1]-5-heptene	650-3100	Sol	Spec	Henbest	JCS	-	(1957)	997
$C_8H_{12}O$	2-Methoxy-1-hepten-3-yne	-	-	Spec, Freq	Petrov	ZOK	28	(1958)	71

$C_8H_{12}O$	3-Methylcyclo-pentenyl methyl ketone	-	-	Band freq	Mcelvane	JACS	77	(1955)	1599
$C_8H_{12}O$	Oct-2-ynal	-	-	Band freq	Crombie	JCS	-	(1955)	1007
$C_8H_{12}O$	Tetrahydrophthalan	11μ	S,Sol	Spec, Band assign	Allison	JCS	-	(1958)	4311
$C_8H_{12}O$	4-Vinylcyclohexene oxide	2.5-15μ 2-15μ	L Sol	Spec, Group freq Spec, Struct, Group freq	Patterson Bomstein	AC AC	26 30	(1954) (1958)	823 544
$C_8H_{12}O$	Vinyloxy-1-hexyne	-	-	Spec	Brandsma	RTC	79	(1960)	1307
$C_8H_{12}OS_2$	2-Oxocycloheane-1-spiro-2'-1,3'-dithiolan	-	S	Band study	Jaeger	JCS	-	(1955)	160
$C_8H_{12}O_2$	2-(β-Acetoxyethyl)-1,3-butadiene	-	-	Group freq	Blomquist	JACS	77	(1955)	81
$C_8H_{12}O_2$	1-Acetoxycyclohex-2-ene	650-3100	Sol	Spec	Henbest	JCS	-	(1957)	997
$C_8H_{12}O_2$	1-Acetoxycyclohex-3-ene	650-3100	Sol	Spec	Henbest	JCS	-	(1957)	997
$C_8H_{12}O_2$	Allylacetylacetone	-	-	Band freq	Davis	JACS	77	(1955)	3284
$C_8H_{12}O_2$	β-n-Butyl-$\Delta^{\alpha,\beta}$-butenolide	1550-1850	Sol	Freq, I	Jones	CJC	37	(1959)	2007
$C_8H_{12}O_2$	7-Carboxybicyclo [2.2.1]-heptane	2.3-13.7μ	S	Table, I	Kwart	JACS	76	(1954)	4072
$C_8H_{12}O_2$	trans-Cyclohexanol-2-acetic acid lactone	1550-1850	Sol	Freq	Jones	CJC	37	(1959)	2007

$C_8H_{12}O_2$	1,2-Cyclooctanedione	-	L	Band freq	Blomquist	JACS	75	(1953)	2153
$C_8H_{12}O_2$	2,4-Diethyl-1,3-cyclobutanedione	-	S	Ident	Reid	JACS	75	(1953)	1655
$C_8H_{12}O_2$	Dimedone	2.2-3.6μ	Sol	Spec, Struct	Hukins	JCS	-	(1949)	898
		-	-	Absorption freq, Struct, Anal	Rasmussen	JACS	71	(1949)	1068
		2400-1800	Sol	Struct, Taut, Solvent effect	Angell	AJC	6	(1953)	294
		-	Sol	Shift on chelation	Bellamy	JCS	-	(1954)	4487
		5-10μ	Sol	Spec, Struct, Band freq	Heymann	JACS	76	(1954)	3689
		3-6μ	S,Sol	Spec	Abramovich	CJC	37	(1959)	361
		2000-3500	Sol	Spec, Assign	Bellamy	PRS	257	(1960)	98
$C_8H_{12}O_2$	2,2-Dimethyl-1,3-cyclohexanedione	1550-1750	Sol	Spec, Assign	Ananchenko	IANS	-	(1960)	1644
$C_8H_{12}O_2$	5,5-Dimethyl-2-hexynoic acid	-	Sol	Group freq, I	Allan	JCS	-	(1955)	1874
$C_8H_{12}O_2$	4-Epoxyethylcyclohexene oxide	2.5-15μ	L,Sol	Spec, Group freq	Patterson	AC	26	(1954)	823
$C_8H_{12}O_2$	3-Ethylcyclohexane-1,3-dione	3.68-13.87μ	S	Table, I, Ident	Smith	JCS	-	(1953)	803
		-	S,L	Band freq	Rogers	JCS	-	(1955)	341
$C_8H_{12}O_2$	Ethyl sorbate	9-3μ	Sol	Spec	Holman	AC	28	(1956)	1533
$C_8H_{12}O_2$	1,2-Heptadiene-3-carboxylic acid	2-16μ	S	Spec, Band study	Wotiz	JACS	74	(1952)	1860
$C_8H_{12}O_2$	trans-4,trans-6-octadienoic acid	-	S	Bending freq	Crombie	JCS	-	(1955)	1007
$C_8H_{12}O_2$	trans-3-Octen-5-yne-1,8-diol	-	L	Group freq, I	Allan	JCS	-	(1955)	1874

$C_8H_{12}O_2$	5-Octynoic acid	2-16μ	Sol	Spec, Group freq	Howton	JOC	16 (1951)	1405
$C_8H_{12}O_2S$	2-Oxocyclohexane-1-spiro-2'-1'-3'-oxathiolan	-	S	Band study	Jaeger	JCS	- (1955)	160
$C_8H_{12}O_3$	3-t-Butyltetronic acid	2-15μ	S	Spec, Band freq	Reid	JOC	16 (1951)	33
$C_8H_{12}O_3$	2-Carbomethoxy-2-methyl-3,4-dihydro-2H-pyran	-	-	Band study	Smith	JACS	73 (1951)	5270
$C_8H_{12}O_3$	3,4-Epoxycyclohexyl acetate	2800-3100	Sol	Stretch freq	Henbest	JCS	- (1957)	1459
$C_8H_{12}O_3$	Ethyl cyclopentanone-2-carboxylate	-	L	Band freq, Table	Leonard	JACS	74 (1952)	4070
$C_8H_{12}O_3$	2-Oxocyclohexane-1-spiro-2'-1',3'-dioxolan	-	S	Band freq	Jaeger	JCS	- (1955)	160
$C_8H_{12}O_3$	trans-3,trans-5-Octadien-8-oloic acid	-	S	Group freq, I	Allan	JCS	- (1955)	1874
$C_8H_{12}O_3$	β-Vinyloxyethyl methacrylate	2-15μ	L	Assign, Generalisation	Walton	JACS	79 (1957)	3985
$C_8H_{12}O_4$	Butyl fumarate	2-15μ	L	Assign, Generalisation	Walton	JACS	79 (1957)	3985
$C_8H_{12}O_4$	s-Butyl fumarate	2-15μ	L	Assign, Generalisation	Walton	JACS	79 (1957)	3985
$C_8H_{12}O_4$	n-Butyl maleate	600-4000	L	Spec, Assign	Le'Fevre	AJC	11 (1958)	92
$C_8H_{12}O_4$	cis-1,4-Cyclohexane-dicarboxylic acid	3200-4000	Sol	H bond	Walborsky	JACS	76 (1954)	5396

$C_8H_{12}O_4$	1,3-Diacetoxy-2-methylpropene	-	-	Band study	Smith	JACS	73	(1951)	5282
$C_8H_{12}O_4$	3,3-Diacetoxy-3-methylpropene	-	-	Band study	Smith	JACS	73	(1951)	5282
$C_8H_{12}O_4$	Diethyl fumarate	1050-1750	-	Spec	Barnes	IEC	15	(1943)	659
		-	Sol	Group & band freq	Goodwin	JACS	75	(1953)	4273
		800-1800	L	Spec, Ident	Stafford	AC	26	(1954)	656
		-	Sol	Band freq	Felton	JCS	-	(1955)	2170
		600-4000	L	Spec, Assign	Le'Fevre	AJC	11	(1958)	92
		-	-	Group freq shift	Bellamy	JCS	-	(1958)	2463
$C_8H_{12}O_4$	Diethyl maleate	1050-1800	-	Spec	Barnes	IEC	15	(1943)	659
		-	Sol	Group freq	Goodwin	JACS	75	(1953)	4273
		800-1800	L	Spec, Ident	Stafford	AC	26	(1954)	656
		-	Sol	Group freq	Felton	JCS	-	(1955)	2170
		400-4000	L	Spec, Assign	Le'Fevre	AJC	11	(1958)	92
$C_8H_{12}O_4$	Dihydroanhydro-monocrotalic acid (+5.60°, Stereoisomer)	3500-700	Sol	Spec, Band study	Adams	JACS	74	(1952)	694
$C_8H_{12}O_4$	Dihydromonocrotalic acid (-60.00°, Stereoisomer)	3500-700	Sol	Spec, Band study	Adams	JACS	74	(1952)	694
$C_8H_{12}O_4$	Dimethyl isopropylidene-malonate	3-6μ	S,Sol	Spec	Abramovich	CJC	37	(1959)	361
$C_8H_{12}O_4$	Ethyl fumarate	2-16μ	L,Sol	Spec, Ident	Walton	AC	28	(1956)	1388
$C_8H_{12}O_4$	Ethyl hydrogen isopropy-lidenmalonate	1000-4000	Sol	Spec, Group freq	Corey	JACS	75	(1953)	1172
$C_8H_{12}O_4$	Ethyl maleate	2-16μ	L,Sol	Spec, Ident	Walton	AC	28	(1956)	1388

$C_8H_{12}O_4$	cis-5-Hydroxy-2-ketocyclohexane-acetic acid	-	-	Ident	Fry	JACS	76	(1954)	284
$C_8H_{12}O_4$	Isobutyl fumarate	2-15 μ	L	Assign, Generalisation	Walton	JACS	79	(1957)	3985
$C_8H_{12}O_4$	Methyl β-methyl-cis-glutaconate	-	-	Anal	Cawley	JACS	77	(1955)	4125
$C_8H_{12}O_4$	Methyl β-methyl-trans-glutaconate	-	-	Anal	Cawley	JACS	77	(1955)	4125
$C_8H_{12}O_4$	α,β,γ-Trimethyl-glutaconic acid	-	-	Anal	Adams	JACS	-	(1952)	5608
$C_8H_{12}O_5$	t-Butyl-β-carboxy-acrylyl peroxide	-	Sol	Table, Band freq	Davison	JCS	-	(1951)	2456
$C_8H_{12}O_5$	Diethyl oxalacetate	-	Sol	Struct	Goodwin	JACS	76	(1954)	5599
$C_8H_{12}O_5$	1-Monocrotalic acid	-	-	Struct	Adams	JACS	74	(1952)	5608
$C_8H_{12}O_6$	Diethyl dihydroxy-fumarate	3.15-11.7 μ	Sol	Table, Group freq, I	Goodwin	JACS	76	(1954)	5599
$C_8H_{12}O_6$	Ethyl-β,D-gluco-fururonoside	-	L	Band freq	Phillips	JACS	76	(1954)	3598
$C_8H_{12}O_7$	Diethyl fumarate maleate ozonide	-	Sol	Group & band freq, I	Goodwin	JACS	75	(1955)	4273
$C_8H_{12}O_8Si$	Tetraacetoxysilane	0-8 μ	Sol	Spec, Freq	Okawara	JACS	82	(1960)	3287
$C_8H_{12}O_9B_2$	Tetraacetyldiborate	1520-1800	S	Freq, Assing, Mol bond	Duncanson	JCS	-	(1958)	3652
$C_8H_{12}S$	2-t-Butylthiophene	6-15 μ	-	Spec	Appleby	JACS	70	(1948)	1552
		-	-	Quant anal	Kutz	JACS	71	(1949)	1503

$C_8H_{12}S$	3-t-Butylthiophene	6-15μ	-	Spec	Appleby	JACS	70 (1948)	1552
		-	-	Quant anal	Kutz	JACS	71 (1949)	1503
$C_8H_{12}Si$	Dimethylphenyl-silane	2-16μ	Sol	Freq	Kniseley	SA	15 (1959)	651
		2050-2250	Sol	Freq, Struct	Smith	SA	15 (1959)	412
$C_8H_{12}Si$	Ethylphenylsilane	-	L,Sol	Vibrations	Harvey	JACS	76 (1954)	4555
$C_8H_{13}D$	1-Octyne-1-d_1	-	Sol	Solvent effect	Wojtkowiak	CPR	251 (1960)	62
$C_8H_{13}Br$	1-Bromobicyclo [2,2,2] octane	-	-	Micro spec	Nethercot	JCP	21 (1953)	363
$C_8H_{13}Br$	1-Bromo-2-octyne	2-16μ	L	Spec, Table	Wotiz	JACS	72 (1960)	5055
$C_8H_{13}Br$	2-Bromo-3-octyne	2-16μ	L	Spec, Table	Wotiz	JACS	72 (1950)	5055
		-	Sol	Group freq, I	Allan	JCS	- (1955)	1874
$C_8H_{13}BrO$	2-Bromocyclo-octanone	-	Sol	IR shifts	Leonard	JACS	80 (1958)	6039
$C_8H_{13}BrO$	2-Bromo-4,4-dimethyl-cyclohexanone	-	Sol	Band freq, Shift, Table	Corey	JACS	75 (1953)	2301
$C_8H_{13}Cl$	1-Chlorobicyclo [2,2,2] octane	-	-	Micro spec	Nethercot	JCP	21 (1953)	363
$C_8H_{13}ClO$	2-Chloro-3,3-dimethylcyclo-hexanone	-	Sol	IR shifts	Corey	JACS	77 (1955)	5418
$C_8H_{13}ClO$	2-Chloro-4,4-dimethylcyclo-hexanone	-	Sol	IR shifts	Corey	JACS	77 (1955)	5418
$C_8H_{13}ClO$	6-Chloro-2,2-dimethylcyclo hexanone	-	Sol	IR shift	Corey	JACS	77 (1955)	5418

$C_8H_{13}ClO_2$	Ethyl 2-chloro-3-methyl-4-pentenoate	-	-	Band freq, Ident	Phillips	JACS	76 (1954) 5385
$C_8H_{13}Cl_3OS$	Hexylthio trichloroacetate	2.5-16μ	Sol	Structure effect on freq	Nyquist	SA	15 (1959) 514
$C_8H_{13}Cl_3O_2$	2,4,4-Trichlorobut-3-enal diethyl acetal	-	-	Ident	Hall	JCS	- (1954) 2034
$C_8H_{13}F_3O$	Trifluoromethyl n-hexyl ketone	650-5000	Sol	Stretch freq	Griffin	SA	16 (1960) 1464
$C_8H_{13}F_3OS$	Hexylthio trifluoroacetate	2.5-16μ	Sol	Structure effect on freq	Nyquist	SA	15 (1959) 514
$C_8H_{13}N$	3,4-Diethylpyrrole	4000-500	L	Spec, Freq, Struct	Eisner	JCS	- (1958) 971
$C_8H_{13}N$	2,3,4,5-Tetramethylpyrrole	-	-	Ident	Vanmeter	AC	24 (1952) 1758
$C_8H_{13}NO$	Allylacetylacetoneamine	-	-	Band freq, Struct	Davis	JACS	77 (1955) 3284
$C_8H_{13}NO$	2-Aza-bicyclo [3,2,2] nonan-3-one	1600-3500	Sol	Freq	Hall	JACS	80 (1958) 6428
$C_8H_{13}NO$	3-Carbamyl-1,2-heptadiene	-	S	Band study	Wotiz	JACS	74 (1952) 1860
$C_8H_{13}NO$	3,5-Dimethyl-6-amino-2-hexenoic acid lactam	-	-	Struct	Horning	JACS	74 (1952) 5153
$C_8H_{13}NO$	3-Keto-1-aza-bicyclo [3.2.2] nonane	-	Sol	Group freq, Struct	Leonard	JACS	75 (1953) 6249

$C_8H_{13}NO$	Tropinone	-	Sol	Band freq	Nickon	JACS	77 (1955)	4094
$C_8H_{13}NO$	N-Vinyl-1-aza-2-cyclo-heptanone	-	Sol	Freq, Spec	Potts	SA	15 (1959)	679
$C_8H_{13}NOS$	N-Methyl-2-(5-methoxy-2-thienyl)-ethyl-amine	-	Sol	Group freq	Herz	JACS	77 (1955)	3529
$C_8H_{13}NO_2$	Arecoline	1-12 μ	L	Spec	O'Byrne	JOSA	23 (1933)	92
$C_8H_{13}NO_2.HBr$	Arecoline hydro-bromide	1-12 μ	L	Spec	O'Byrne	JOSA	23 (1933)	92
$C_8H_{13}NO_2$	β,β,N-Trimethyl-glutarimide	-	S	Group freq	Ames	JCS	- (1955)	631
$C_8H_{13}NO_3$	4-Methylcarbamyl-4-hydroxy-2,3-dimethyl-butanoic lactone	735-3636	L	Table, Band freq	Ames	JCS	- (1954)	375
$C_8H_{13}NO_3$	α-1-(2-Piperidone)-propionic acid	-	Sol	Ident, Band freq	Todd	JACS	75 (1953)	1895
$C_8H_{13}NO_3S$	2-(3-Carboxypropyl)-4-thiazolidone methyl ester	-	Sol	Band freq	Pennington	JACS	75 (1953)	109
$C_8H_{13}NO_3S$	2-(4-Carboxybutyl)-4-thiazolidone	-	Sol	Band freq	Pinnington	JACS	75 (1953)	109
$C_8H_{13}NO_3S.HCl$	Platynecine sulfite hydrochloride	-	-	Band freq	Adams	JACS	76 (1954)	6379
$C_8H_{13}NO_4$	Methyl 5-methyl-6-nitro-3-hexenoate	-	-	Absorption	Leonard	JACS	74 (1952)	1700

$C_8H_{13}NO_6$	1-Carbomethoxy-2-carboxy-3-methyl-3-nitrobutane	2.5-8μ	Sol	Spec, Struct	Magee	JOC	19	(1954)	168
$C_8H_{13}NO_6$	2-Carbomethoxy-1-carboxy-3-methyl-3-nitrobutane	2.5-8μ	Sol	Spec, Struct	Magee	JOC	19	(1954)	168
$C_8H_{13}N_3O_2$	ψ-5-Keto-3-(2-Methyl-cyclohexyl)-3,5-dihydro-1,2,3,4-oxatriazole	-	-	Struct	Boyer	JACS	77	(1955)	1280
$C_8H_{13}N_3O_2 \cdot 2HCl$	Histidine ethyl ester dihydro-chloride	2-9μ	Sol	Spec, Freq, Reactivity	Jencks	ABB	88	(1960)	193
$C_8H_{13}N_3O_3$	β-(N-γ-L-Glutamyl)-aminopropionitrile	-	-	Ident	Schilling	JACS	77	(1955)	2843
$C_8H_{13}N_3O_3$	β(or α)-(γ-L-glutamyl)-aminopropiononitrile	-	-	Ident	Schilling	JACS	76	(1954)	2848
C_8H_{14}	Bicyclo [2.2.2] octane	2-15μ	Sol	Spec	Hine	JACS	77	(1955)	594
		250-3500	G,L,S, Sol	Freq, Assign	Macfarlane	JCS	-	(1960)	4169
C_8H_{14}	cis-Bicyclo [3.3.0] octane	2.5-15.5μ	-	Spec, Struct	Cope	JACS	72	(1950)	3056
		2-16μ	L	Spec	Roberts	JACS	74	(1952)	2278
		12.6-14μ	L	Struct, Group anal	Francis	AC	25	(1953)	1466
C_8H_{14}	trans-Bicyclo [3.3.0] octane	2-16μ	L	Spec	Roberts	JACS	74	(1952)	2278
C_8H_{14}	Bicyclo [4.2.0] octane	-	-	Ident	Blomquist	JACS	73	(1951)	2098
C_8H_{14}	Cyclooctene	2.5-15μ	-	Spec, Ident	Cope	JACS	72	(1950)	1128

C_8H_{14}	cis-Cyclooctene	2-16μ	L	Spec, Group freq, Anal	Cope	JACS	75	(1953)	3212
C_8H_{14}	trans-Cyclooctene	2-16μ	L	Spec, Group freq, Anal	Cope	JACS	75	(1953)	3212
C_8H_{14}	2-Cyclopropyl-3-methyl-1-butene	-	L,Sol	Band freq	Slabey	JACS	76	(1952)	3604
C_8H_{14}	2-Cyclopropyl-1-pentene	- -	- S,Sol	Ident Band freq	Greenfield Slabey	JACS JACS	76 76	(1954) (1954)	1258 3604
C_8H_{14}	2-Cyclopropyl-2-pentene H.B.	-	L,Sol	Band freq	Slabey	JACS	76	(1954)	3604
C_8H_{14}	2-Cyclopropyl-2-pentene L.B.	-	L,Sol	Band freq	Slabey	JACS	76	(1954)	3604
C_8H_{14}	1,2-Dimethylcyclohexene	-	L	Anal, Band freq	Nevitt	JACS	76	(1954)	4124
C_8H_{14}	2,3-Dimethylcyclohexene	-	L	Anal, Band freq	Nevitt	JACS	76	(1954)	4124
C_8H_{14}	3,3-Dimethylcyclohexene	-	L	Anal, Band freq	Henbest	JCS	-	(1954)	800
C_8H_{14}	2,5-Dimethyl-1,5-hexadiene	500-2000 700-1500	- -	Spec IR, Assign, Freq	Thompson Sheppard	PRS PRS	184 196	(1945) (1949)	3 195
C_8H_{14}	1-Ethylcyclohexene	-	-	Ident	Benkeser	JACS	77	(1955)	3230
C_8H_{14}	1-Methylcyclohepten	-	-	Spec, Freq	Brini	BSCF	-	(1959)	1188
C_8H_{14}	2-Methyl-3-isopropyl-1,3-butadiene	3500-650	-	Spec, Band freq	Marvel	JACS	74	(1952)	1506

C_8H_{14}	2-Methylmethylene-cyclohexane	-	L	Anal, Band freq	Nevitt	JACS	76	(1954)	4124
C_8H_{14}	1-Octyne	-	Sol	Solvent effect	Wojtkowiak	CPR	250	(1960)	3980
C_8H_{14}	4-Octyne	-	-	Assign	Cleveland	JCP	10	(1942)	172
C_8H_{14}	Spiro [2.5] octane	2-15μ	L	Spec	Bridson	JCS	-	(1951)	2999
$C_8H_{14}BrNO_2$	α,α-Diethoxy-β-bromobutyronitrile	-	-	Band freq	McElvain	JACS	77	(1955)	3786
$C_8H_{14}ClNO_3$	n-Butyl N-chloro-acetyl-N-methyl-carbamate	650-4000	Sol	Spec	Pianka	JCS	-	(1960)	983
$C_8H_{14}Cl_2F_2Si$	2,2-Dichloro-3,3-difluorocyclo-butylmethyl trimethylsilane	10.85-11.1μ	-	Freq	Park	JOC	25	(1960)	1628
$C_8H_{14}Cl_2OS$	Hexylthio dichloro-acetate	2.5-16μ	Sol	Struct effect on freq	Nyquist	SA	15	(1959)	514
$C_8H_{14}F_3NO$	N,N-Diisopropyl-trifluoroacetamide	-	S	Group freq	Robson	JACS	77	(1955)	498
$C_8H_{14}F_4Si$	2,3-Tetrafluoro-cyclobutylmethyl-trimethylsilane	10.85-11.1μ	-	Freq	Park	JOC	25	(1960)	1628
$C_8H_{14}N_2O_2$	Acetylproline-N-methyl amide	2.8-3.5μ	Sol	Spec, H bond, Config	Mizushima	JACS	74	(1952)	4639
		2.8-3.2μ	Sol	Spec, Group freq, Struct	Mizushima	JACS	76	(1954)	2479
		-	Sol	H bond	Mizushima	JACS	76	(1954)	6003
$C_8H_{14}N_2O_2$	Acetyl-L-proline-N-methyl amide	3μ,6μ	Sol	Config	Mizushima	N	169	(1952)	1058
		2800-3500	Sol	Mol config	Tsuboi	JACS	81	(1959)	1406

$C_8H_{14}N_2O_2$	Desthiolutin	2-16 μ	S,Sol	Spec	Celmer	JACS	77	(1955)	2861
$C_8H_{14}N_2O_2$	N-(n-Hexyl) sydnone	2-15 μ	L	Spec	Fugger	JACS	77	(1955)	1843
$C_8H_{14}N_2O_2$	Tetrahydro-2-hydroxy-4-oxo-5,5-pentamethyleneglyoxaline	-	-	Band study	Carrington	JCS	-	(1953)	3105
$C_8H_{14}N_2O_2$	Tetramethyldiketopiperazine	2.8-3.6 μ 2-15 μ	S S	Spec, Assign Spec	Kellner Jacobson	PRS JACS	177 68	(1941) (1946)	447 2628
$C_8H_{14}N_2O_5$	α-Glutamylalanine (LL, LD)	635-5000	S	Assign	Ellenbogen	JACS	78	(1956)	366
$C_8H_{14}N_2O_5$	α-Analylglutamic acid (LL,LD)	635-5000	S	Assign	Ellenbogen	JACS	78	(1956)	366
$C_8H_{14}N_4O$	n-Caproyldicyandiamide	-	-	Band study	Adams	JOC	17	(1952)	1162
$C_8H_{14}N_4O_2$	N-Nitro-N′-(α-cyanoisopropyl)-piperazine	-	-	Ident	Emmons	JACS	77	(1955)	4387
$C_8H_{14}N_4O_5$	Tetraglycine	4000-650	S	Spec, Struct	Blout	JACS	74	(1952)	1946
$C_8H_{14}N_4O_5$	Triglycylglycine	1450-5300	S	IR (pol)	Abbott	PRS	219	(1953)	17
$C_8H_{14}O$	Butyl cyclopropyl ketone	-	L,Sol	Band freq	Slabey	JACS	76	(1954)	3604
$C_8H_{14}O$	3-Butyl-4-hydroxy-1,2-butadiene	-	-	Absorption band study	Wotiz	JACS	74	(1952)	1860
$C_8H_{14}O$	Cyclohexyl methyl ketone	5-7 μ	L	Band freq	Friess	JACS	74	(1952)	1302

$C_8H_{14}O$	Cyclooctanone	-	L	Band freq	Schubert	JACS	77	(1955)	4172
		-	Sol	Group freq	Leonard	JACS	80	(1958)	6039
		-	Sol	Stretch freq	Burer	HCA	43	(1960)	1487
		-	-	Freq , Temp effect	Chiurdoglu	CPR	250	(1960)	3495
$C_8H_{14}O$	Cyclopropyl t-butyl ketone	2-14.5 μ	L	Spec, Table, Band freq	Wiberly	AC	24	(1952)	623
$C_8H_{14}O$	Diallylmethyl carbinol	-	-	Spec	Michinori	BCSJ	33	(1960)	1600
$C_8H_{14}O$	2,2-Dimethylcyclohexanone	-	-	Band freq, Shift, Table	Corey	JACS	77	(1955)	5418
		400-4000	Sol	Spec, Ext coeff	Cummins	JCS	-	(1957)	3847
$C_8H_{14}O$	2,4-Dimethylcyclohexanone	2-15 μ	Sol	Spec, Struct anal	Kornfeld	JACS	71	(1949)	150
$C_8H_{14}O$	2,5-Dimethylcyclohexanone	2-15 μ	Sol	Spec, Struct anal	Kornfeld	JACS	71	(1949)	150
$C_8H_{14}O$	2,6-Dimethylcyclohexanone	400-4000	Sol	Spec, Ext coeff, Absorption	Cummins	JCS	-	(1957)	3847
$C_8H_{14}O$	3,3-Dimethylcyclohexanone	-	-	Band freq, Shift, Table	Corey	JACS	77	(1955)	5418
$C_8H_{14}O$	4,4-Dimethylcyclohexanone	-	Sol	Band freq, Config	Corey	JACS	75	(1953)	2301
				Band freq	Corey	JACS	77	(1955)	5418
$C_8H_{14}O$	1-Ethoxycyclohex-2-ene	650-3100	Sol	Spec	Henbest	JCS	-	(1957)	997
$C_8H_{14}O$	1-Ethoxycyclohex-3-ene	650-3100	Sol	Spec	Henbest	JCS	-	(1957)	997
$C_8H_{14}O$	3-Ethoxycyclohexene	-	-	Ident	Goering	JACS	77	(1955)	3465
		3100-2800	Sol	Group study	Henbest	JCS	-	(1957)	1462

$C_8H_{14}O$	4-Ethoxycyclo-hexene	3100-2800	Sol	Group study	Henbest	JCS	-	(1957)	1462
$C_8H_{14}O$	1-Ethoxy-2,4-hexadiene	-	-	Struct	Bateman	JCS	-	(1950)	936
$C_8H_{14}O$	Hexahydrophthalan	2-16μ	-	Spec	Entel	JACS	74	(1952)	441
		-	-	Band freq	Brace	JACS	77	(1955)	4157
$C_8H_{14}O$	α-Isopropylcyclo-pentanone	2-15μ	Sol	Spec, Struct anal	Kornfeld	JACS	71	(1949)	150
$C_8H_{14}O$	2-Methyl-2-heptenone-6	700-1800	L	Spec, Group freq, Struct	Barnard	JCS	-	(1950)	915
		-	L	Ident	Meinwald	JACS	77	(1955)	1617
$C_8H_{14}O$	2-Methyl-6-heptenone-2	3800-600	-	Spec, Group freq	Kappeler	HCA	37	(1954)	957
$C_8H_{14}O$	Methyl trans-2-methylcyclo-pentyl ketone	-	-	Ident	Pines	JACS	76	(1954)	4417
$C_8H_{14}O$	Octahydrobenzofuran	2-16μ	L	Spec, Ident	Entel	JACS	73	(1951)	4152
$C_8H_{14}O$	Oct-trans-2-enal	-	-	Band freq	Crombie	JCS	-	(1955)	1007
$C_8H_{14}O$	cis-Oct-5-en-2-one	-	L,S	Ident	Harper	JCS	-	(1955)	1512
$C_8H_{14}O$	3-Octynol-2	2-16μ	L	Spec, Table	Wotiz	JACS	72	(1950)	5055
$C_8H_{14}O$	Vinylcyclohexane oxide	3-15μ	L	Spec, Group freq	Patterson	AC	26	(1954)	823
$C_8H_{14}OS$	Cyclohexanone ethylene hemithioketal	-	Sol	Band freq	Djerassi	JACS	75	(1953)	3704
$C_8H_{14}OS$	1-Ethylthio-4-methyl 1-penten-3-one	1500-1800	Sol	Freq, Struct	Leonard	JACS	81	(1959)	595

$C_8H_{14}OS$	4-Propionyltetra-hydrothiapyran	-	L	Freq	Cockburn	JACS	76	(1954)	5703
$C_8H_{14}O_2$	Butyl crotonate	10-15 μ	L	Spec, Epoxy study	Patterson	AC	26	(1954)	823
		2-15 μ	L	Spec, Assign	Walton	JACS	79	(1957)	3985
$C_8H_{14}O_2$	s-Butyl crotonate	800-1500	Sol	Band study, Group assign	Katritzky	SA	16	(1960)	954
		-	-	Band study, Assign	Katritzky	SA	16	(1960)	964
$C_8H_{14}O_2$	t-Butyl methacrylate	-	Sol	Freq, Anal	Crawford	JCS	-	(1952)	1220
$C_8H_{14}O_2$	n-Butyl methacrylate	-	Sol	Band freq, Absorption study	Davison	JCS	-	(1953)	2607
		10-15 μ	-	Spec, Epoxy study	Patterson	AC	26	(1954)	823
		2-15 μ	L	Spec, Assign	Walton	JACS	79	(1957)	3985
		-	Sol	Freq, I	Thompson	SA	13	(1958)	236
		800-1500	Sol	Band study, Group assign	Katritzky	SA	16	(1960)	954
		-	-	Band study, Assign	Katritzky	SA	16	(1960)	964
$C_8H_{14}O_2$	2-Carboxyhept-1-ene	-	Sol	Group freq, Bend freq, spec	Potts	SA	15	(1959)	679
$C_8H_{14}O_2$	Cyclohexyl acetate	-	G	Group freq	Hartwell	JCS	-	(1948)	1436
		1530-1500	Sol	Spec, Table	Jones	JACS	74	(1952)	5648
		-	Sol	Table, Bending freq	Jones	JACS	74	(1952)	5662
		-	Sol	Freq, I	Thompson	SA	13	(1958)	236
$C_8H_{14}O_2$	Cyclohexylacetic acid	903-1330	-	Table, Ident	Loftfield	JACS	76	(1954)	35
$C_8H_{14}O_2$	Dibutyryl	-	L	Band freq	Leonard	JACS	75	(1953)	3300
$C_8H_{14}O_2$	Di-isobutyryl	-	L	Band freq	Leonard	JACS	75	(1953)	3300
$C_8H_{14}O_2$	Cis-2,3-Dihydroxy-bicyclo [2.2.2] octane	3200-400	Sol	Spec, H bond	Walborsky	JACS	76	(1954)	5396

$C_8H_{14}O_2$	trans-2,3-Dihydroxy-bicyclo [2.2.2] octane	3200-4000	Sol	Spec, H bond	Walborsky	JACS	76 (1954)	5396
$C_8H_{14}O_2$	Ethyl 2-hexenoate	-	L	Band freq	Filler	JACS	76 (1954)	1376
$C_8H_{14}O_2$	2-Ethyl-2-hydroxy-cyclohexanone	-	S	Band freq	Jaeger	JCS	- (1955)	160
$C_8H_{14}O_2$	2-Hydroxycyclo-octanone	-	-	Band freq	Blomquist	JACS	75 (1953)	2153
$C_8H_{14}O_2$	Isobutylcrotonate	800-1500	Sol	Band study, Group assign	Katritzky	SA	16 (1960)	954
		-	-	Band study, Assign	Katritzky	SA	16 (1960)	964
$C_8H_{14}O_2$	Isobutylmethacrylate	2-15μ	L	Spec, Assign	Walton	JACS	79 (1957)	3985
		-	Sol	Freq, I	Thompson	SA	13 (1958)	236
		800-1500	Sol	Band study, Group assign	Katritzky	SA	16 (1960)	954
		-	-	Band study, Assign	Katritzky	SA	16 (1960)	964
$C_8H_{14}O_2$	Methyl cyclohexane-carboxylate	-	-	Band freq	Neuss	JACS	75 (1953)	4870
$C_8H_{14}O_2$	1-Methylcyclo-hexanecarboxylic acid	-	-	Ident	Loftfield	JACS	76 (1954)	35
$C_8H_{14}O_2$	2-Methyl-2-methallyl-1,3-dioxolane	-	-	Band freq	Coustantin	JACS	75 (1953)	1716
$C_8H_{14}O_2$	trans-2-Methyl-2-heptenoic acid	600-1900	Sol	Spec, Iso	Cason	JOC	19 (1954)	1947
$C_8H_{14}O_2$	trans-2,trans-4-octadiene-6,7-diol	-	L	Group freq, I	Allan	JCS	- (1955)	1874

$C_8H_{14}O_2$	cis-5-Octenoic acid	2-16μ	Sol	Spec, Group freq	Howton	JOC	16	(1951)	1405
$C_8H_{14}O_2$	trans-5-Octenoic acid	2-16μ	Sol	Spec, Group freq	Howton	JOC	16	(1951)	1405
$C_8H_{14}O_2$	Pivaloylacetone	1200-1800	S	Mol const., Assign	Charette	SA	16	(1960)	689
$C_8H_{14}O_2S$	8-Thiol-6-hydroxy-octanoic acid lactone	-	-	Ident	Bullock	JACS	76	(1954)	1828
$C_8H_{14}O_2S_2$	α-Lipoic acid	-	-	Absorption study	Brockman	JACS	74	(1952)	1868
		-	-	Spec	Reed	JACS	74	(1952)	2383
		2.8-12μ	Sol	Spec, Ident	Hornberger	JACS	75	(1953)	1273
		-	Sol	Assign, Table	Reed	JACS	75	(1953)	1267
		-	-	Ident	Brockman	JACS	76	(1954)	1827
		800-3600	-	Spec	Patterson	JACS	76	(1954)	1823
$C_8H_{14}O_2S_2$	4-Thioctic acid	-	-	Ident	Bullock	JACS	76	(1954)	1828
$C_8H_{14}O_3$	α-sec-Butyl aceto-acetate	-	Sol	Taut, Band assign	Movsesyan	IANS	22	(1958)	1126
$C_8H_{14}O_3$	Butyric anhydride	950-1200	Sol	Spec, Anal, Ext coeff	Brown	JCS	-	(1951)	87
$C_8H_{14}O_3$	trans-1,2-Cyclo-heptanediol mono-formate	-	-	Ident	Cope	JACS	76	(1954)	279
$C_8H_{14}O_3$	Ethyl cyclopentyl-carbonate	-	-	Ident	Bollinger	JACS	75	(1953)	1729
$C_8H_{14}O_3$	Ethyl α, α-dimethyl-acetoacetate	2-15μ	-	Absorption freq, Struct anal	Rasmussen	JACS	71	(1949)	1073
$C_8H_{14}O_3$	Ethyl α (ethoxymethyl) acrylate	-	-	Ident	Ferris	JOC	20	(1955)	780

$C_8H_{14}O_3$	Glycidyl 2-tetrahydropyranyl ether	-	-	Epoxy freq	Patterson	AC	26	(1954)	823
$C_8H_{14}O_3$	1-Glycoloylcyclohexanol	-	Sol	Band freq	Billimoria	JCS	-	(1953)	2626
$C_8H_{14}O_3$	2-Hydroxycyclohexane-1-spiro-2′-1′,3′-dioxolan	-	S	Band freq	Jaeger	JCS	-	(1955)	160
$C_8H_{14}O_3$	cis-2-Oxahydrindane-cis-5,6-diol	-	S	Ident	Eliel	JACS	77	(1955)	3600
$C_8H_{14}O_3$	cis-2-Oxahydrindane-diol-5,6	-	Sol	Band freq	Eliel	JACS	77	(1955)	3600
$C_8H_{14}O_3$	trans-2-Oxahydrindanediol-5,6	-	L	Band freq	Eliel	JACS	77	(1955)	3600
$C_8H_{14}O_3S$	Ethyl acetoacetate ethylene hemithioketal	-	Sol	Band freq	Djerassi	JACS	75	(1953)	3704
$C_8H_{14}O_3S_2$	Protogen-B	-	-	Band study	Brockman	JACS	74	(1952)	1868
		-	-	Band freq	Brockman	JACS	76	(1954)	1827
		800-3600	-	Spec	Patterson	JACS	76	(1954)	1823
$C_8H_{14}O_4$	Dibutyryl peroxide	-	-	Table, Group freq	Davison	JCS	-	(1951)	2456
$C_8H_{14}O_4$	Diethyl succinate	750-2000	-	Spec	Barnes	IEC	15	(1943)	659
		-	Sol	Mol struct	Felton	JCS	-	(1955)	2170
		670-3500	L,S	Spec, Config	Corish	JCS	-	(1958)	927
$C_8H_{14}O_4$	Dimethyl adipate	670-3500	L,S	Spec, Config	Corish	JCS	-	(1958)	927
$C_8H_{14}O_4$	2,5-Di-O-methyl-1:4,3:6-dianhydro-D-mannitol	700-1000	S	Group freq, I	Barker	JCS	-	(1954)	4500

$C_8H_{14}O_4$	2,5-Dimethyl-2,5-dihydroperoxy-hexyne-3	2-6μ	Sol	Spec	Milas	JACS	74	(1952)	1471
$C_8H_{14}O_4$	α-Ethyl-β-methyl-glutaric acid	600-4000	Sol	Spec, Ident	Snyder	JACS	76	(1954)	33
$C_8H_{14}O_4$	α-Methyl-α-isopropyl-succinic acid	-	-	Ident	Eastman	JACS	75	(1954)	1029
$C_8H_{14}O_4$	Suberic acid	670-2000	L,S	Spec, Rocking freq	Corish	JCS	-	(1955)	2431
		650-2000	S	Spec, Struct	Davies	TFS	56	(1960)	185
$C_8H_{14}O_4S$	Thiodiglycol diacetate	1000-1500	Sol	Spec	Schreiber	AC	21	(1949)	1168
$C_8H_{14}O_5$	Diethyl malate	3μ	Sol	H bond	Mori	NKZ	77	(1956)	459
$C_8H_{14}O_5$	Diethylene glycol diacetate	2-16μ	L	Spec	Liang	JACS	72	(1950)	1411
$C_8H_{14}O_5$	2,3-O-Isopropylidene-D-lyxofuranose	2-15μ	S	Spec	Tipson	JRNB	62	(1959)	257
$C_8H_{14}O_5$	2,3-O-Isopropylidene-D-threopentulo-furanose	2-15μ	S	Spec	Tipson	JRNB	62	(1959)	257
$C_8H_{14}O_5$	1,2-O-Isopropylidene-D-xylofuranose	2-15μ	S	Spec	Tipson	JRNB	62	(1959)	257
$C_8H_{14}O_5$	Methyl 3:6-anhydro-2-O-methyl-α,D-mannopyranoside	700-1000	S	Group & band freq, I	Barker	JCS	-	(1954)	4550
$C_8H_{14}O_5$	2,3,4-Tri-O-methyl-L-arabino-δ-lactone	1700-1800	S	Freq	Barker	CIL	-	(1958)	658

$C_8H_{14}O_5$	2,3,4-Tri-O-methyl-D-xylono-δ-lactone	1700-1800	S	Freq	Barker	CIL	- (1958)	658
$C_8H_{14}O_6$	Diethyl D-tartrate	3μ	Sol	H bond	Mori	NKZ	77 (1956)	459
$C_8H_{14}O_6$	Diethyl meso-tartrate	6600-7300	Sol	Spec, H bond	Hilbert	JACS	58 (1936)	548
$C_8H_{14}O_6$	3,4-Di-O-methyl-D-glucono-δ-lactone	1700-1800	S	Freq	Barker	CIL	- (1958)	658
$C_8H_{14}O_6$	5,6-Di-O-methyl-D-mannono-γ-lactone	1700-1800	S	Freq	Barker	CIL	- (1958)	658
$C_8H_{14}O_6$	Ethyl tartrate	6600-7400	Sol	Spec, H bond	Hilbert	JACS	58 (1936)	548
		-	Sol	Struct	Pauling	JACS	58 (1936)	94
		2-15μ	Sol	Spec, Anal, Group freq	Pristera	AC	25 (1953)	844
$C_8H_{14}O_6$	Methyl glycolate acetal	-	-	Group study	Adelman	JACS	75 (1953)	2678
$C_8H_{14}O_6S$	Thiodiglycol diacetate sulfone	1000-1500	Sol	Spec	Schrieber	AC	21 (1949)	1168
$C_8H_{14}O_7$	Methyl 1-methyl-α D-galacturonate	8-15μ	S	Spec	Kuhn	AC	22 (1950)	276
$C_8H_{14}S$	Dicrotyl sulfide	500-1500	L	Spec	Sheppard	TFS	46 (1950)	429
$C_8H_{14}S$	trans-2-Thia-hexahydroindan	2-15μ	L	Spec	Birch	JOC	19 (1954)	1449
$C_8H_{14}S$	cis-2-Thia-hexahydroindan	2-15μ	L	Spec	Birch	JOC	19 (1954)	1449
$C_8H_{14}S$	2,4,6-Trimethyl-Δ^3-dihydrothiapyran	-	-	Ident	Naylor	JCS	- (1949)	2749

$C_8H_{15}Br$	cis-1-Bromo-1,2-dimethylcyclohexane	-	L	Anal	Hammond	JACS	76	(1954)	4121
$C_8H_{15}Br$	trans-1-Bromo-1,2-dimethylcyclohexane	-	L	Anal	Hammond	JACS	76	(1954)	4121
$C_8H_{15}Br$	cis-1-Bromo-2-octene	-	-	Struct, Ident, Anal	Bateman	JCS	-	(1950)	941
$C_8H_{15}BrOS$	Hexylthio monobromoacetate	2.5-16μ	Sol	Struct effect on freq	Nyquist	SA	15	(1959)	514
$C_8H_{15}ClOS$	Hexylthio monochloroacetate	2.5-16μ	Sol	Struct effect on freq	Nyquist	SA	15	(1959)	514
$C_8H_{15}N$	1-Allylpiperidine	- -	L L	Group freq Anal	Leonard Butler	JACS JACS	76 77	(1954) (1955)	2781 1767
$C_8H_{15}N.HBr$	1-Allylpiperidine hydrobromide	-	S	Band freq	Leonard	JACS	76	(1954)	2781
$C_8H_{15}N$	3-Amino-3-methyl-4-heptyne	-	-	Group freq	Hennion	JACS	75	(1953)	4297
$C_8H_{15}N$	1-Heliotridane	650-3800	-	Spec	Leonard	JACS	72	(1950)	2537
$C_8H_{15}N$	1-Methyl-2-propyl-Δ^2-pyrroline	- -	- -	Ident Ident	Leonard Leonard	JACS JACS	74 76	(1952) (1954)	2871 2781
$C_8H_{15}N.HClO_4$	1-Methyl-2-n-propyl Δ^2-pyrroline perchlorate	- -	L S	Band freq Freq	Leonard Leonard	JACS JACS	76 76	(1954) (1954)	2781 2781
$C_8H_{15}N$	2-Methyl-1-pyrrolidino-1-propene	-	-	Spec	Opitz	A	623	(1959)	112

$C_8H_{15}N$	Octanonitrile	2-15μ	L	Spec	Wotiz	JACS	71 (1949)	5441
$C_8H_{15}N$	Piperidino-1-propene	-	-	Spec	Opitz	A	623 (1959)	112
$C_8H_{15}N$	d-Pseudoheliotridane	650-3800	-	Spec	Leonard	JACS	72 (1950)	2537
$C_8H_{15}NO$	2-(2-Butenylidineamino)-1-butanol	-	L	Group freq, I	Goldberg	JACS	77 (1955)	359
$C_8H_{15}NO$	N-Cyclohexylacetamide	-	-	FC	Richards	TFS	44 (1948)	40
$C_8H_{15}NO$	N-Cyclohexylidenethanolamine	2-15μ	-	Spec, Struct	Daasch	JACS	73 (1951)	4523
$C_8H_{15}NO$	N,N-Dimethyl-2,3-dimethyl-2-butenamide	-	-	Anal	Corey	JACS	75 (1953)	1163
$C_8H_{15}NO$	N,N-Dimethyl-2,3-dimethyl-3-butenamide	-	-	Anal	Corey	JACS	75 (1953)	1163
$C_8H_{15}NO$	1-Methyl-1-azacyclooctan-5-one	-	S,Sol	Group freq	Leonard	JACS	76 (1954)	630
$C_8H_{15}NO$	Pelletierine	1-12μ	L	Spec	O'Burne	JOSA	23 (1933)	92
$C_8H_{15}NO$	Pseudotropine	-	Sol	Ident, Config	Nickon	JACS	74 (1952)	5566
		-	Sol	Spec, H bridge	Zenitz	JACS	74 (1952)	5564
		-	Sol	Ident	Nickon	JACS	77 (1955)	4094
$C_8H_{15}NO$	Tropine	-	Sol	Band freq	Marion	JACS	73 (1951)	305
		2.5-3.5μ	Sol	Spec, H bridge	Zenitz	JACS	74 (1952)	5564
$C_8H_{15}NO_2$	N-Cyclopentylurethan	-	-	Ident	Bollinger	JACS	75 (1953)	1729

$C_8H_{15}NO_2$	N-(β-Hydroxyethyl)-8-oxa-3-aza bicyclo [3.2.1] octane	-	-	Ident	Cope	JACS	77	(1955)	393
$C_8H_{15}NO_2S$	β-t-Butylsulfonyl-α-methylpropionitrile	-	-	Spec	Ross	JACS	73	(1951)	540
$C_8H_{15}NO_3$	N-(Ethoxyethylidene)-glycine ethyl ester	2-16μ	L	Spec, Struct anal	Wiley	JACS	71	(1949)	2899
$C_8H_{15}NO_3$	N-Hexoylglycine	1500-1750	S	Spec, Assign	Richards	JCS	-	(1947)	1248
$C_8H_{15}NO_4$	Ethyl γ-methyl-α-nitropentanoate	-	-	Band freq	Emmons	JACS	77	(1955)	4391
$C_8H_{15}NO_4$	Ethyl α-nitro-hexanoate	-	-	Band freq	Emmons	JACS	77	(1955)	4391
$C_8H_{15}NO_5$	Ethyl β-hydroxy-γ-nitrocaproate	-	-	Group & band freq	Leonard	JACS	17	(1952)	1262
$C_8H_{15}NO_6$	2-Acetamido-2-deoxy-α-D-glucopyranose	-	S	Group & band freq, I	Barker	JCS	-	(1954)	171
$C_8H_{15}NO_6$	N-Acetylgalactosamine	0-15μ	S	Ident	Suzuki	JBC	235	(1960)	2768
$C_8H_{15}NO_9S$	N-Acetylgalactosamine-4-monosulphate	0-15μ	S	Ident	Suzuki	JBC	235	(1960)	2768
$C_8H_{15}NO_9S$	N-Acetylgalactosamine-6-monosulphate	0-15μ	S	Ident	Suzuki	JBC	235	(1960)	2768
$C_8H_{15}NS$	β-t-Butylmercapto-α-methylpropionitrile	-	-	Spec	Ross	JACS	73	(1951)	540

$C_8H_{15}NS$	n-Heptyl thio-cyanate	600-2000	-	Freq	Lieber	SA	13	(1959)	296
$C_8H_{15}NS$	n-Heptyl isothio-cyanate	600-2000	-	Freq	Lieber	SA	13	(1959)	296
$C_8H_{15}N_3O$	3-Methylcyclohexa-none samicarbazone	700-3500	S	Assign, Ident	Davison	JCS	-	(1955)	3389
$C_8H_{15}N_5O$	4-Butyl-5-pyrazolono-guanidine	400-400	-	Freq	Gagnon	CJC	37	(1959)	110
$C_8H_{15}O_4P$	Di-isopropoxy-hypophosphorous acid	600-4000	S	Group study	Braunholtz	JCS	-	(1959)	868
C_8H_{16}	n-Butylcyclobutane	2-15μ	L	Spec	Derfer	JACS	71	(1949)	2482
C_8H_{16}	Cyclooctane	-	-	Freq	Kellner	TFS	41	(1945)	217
		9-13μ	-	Spec	Foster	JACS	70	(1948)	2303
		2-34μ	L,Sol, S	Spec, Freq, Struct	Bellis	SA	15	(1959)	1103
C_8H_{16}	2-Cyclopropyl-3-methylbutane	-	L,Sol	Band freq	Slabey	JACS	76	(1954)	3604
		15-35μ	S	Spec, Struct	Bentley	SA	15	(1959)	165
C_8H_{16}	2-Cyclopropyl-pentane	-	-	Ident	Greenfield	JACS	76	(1954)	1258
		-	L,Sol	Band freq	Slabey	JACS	76	(1954)	3604
C_8H_{16}	Di-isobutylene	1-30μ	G	Spec	Kettering	P	4	(1933)	39
		1150-1650	-	Absorption freq, Spec	Barnes	IEC	15	(1943)	659
		3.4μ	Sol	Anal	Simard	AC	23	(1951)	1384
		-	-	Anal	Gasson	JCS	-	(1954)	2170
C_8H_{16}	1,1-Dimethyl-cyclohexane	-	-	Thermo, Struct	Beckett	JACS	69	(1947)	2488
		2-15μ	L	Spec	Plyler	JRNB	38	(1947)	211
		-	G	Anal	Bell	AC	22	(1950)	1005

		-	-	Group anal	Hastings	AC	24 (1952) 612
		1350-1500	Sol	Struct	Bottomley	JCS	- (1955) 2624
		13-35μ	S	Spec, Struct	Bentley	SA	15 (1959) 165
C_8H_{16}	1,Cis-2-Dimethyl-cyclohexane	-	-	Thermo, Struct	Beckett	JACS	69 (1947) 2488
		2-14.5μ	L	Spec	Plyler	JRNB	38 (1947) 211
		15-35μ	S	Spec, Struct	Bentley	SA	15 (1959) 165
C_8H_{16}	1,trans-2-Dimethyl-cyclohexane	-	-	Thermo, Struct	Beckett	JACS	69 (1947) 2488
		2-15μ	L	Spec	Plyler	JRNB	38 (1947) 211
		-	G	Anal	Bell	AC	22 (1950) 1005
		-	-	Group anal	Hastings	AC	24 (1952) 612
C_8H_{16}	1,cis-3-Dimethyl-cyclohexane	-	-	Thermo, Struct	Beckett	JACS	69 (1947) 2488
		-	G	Anal	Bell	AC	22 (1950) 1005
		-	-	Group anal	Hastings	AC	24 (1952) 612
C_8H_{16}	1,cis,4-Dimethyl-cyclohexane	-	-	Thermo, Struct	Beckett	JACS	69 (1947) 2488
		-	G	Anal	Bell	AC	22 (1950) 1005
		-	-	Group anal	Hastings	AC	24 (1952) 612
C_8H_{16}	1,trans,4-Dimethyl-cyclohexane	-	-	Thermo, Struct	Beckett	JACS	69 (1947) 2488
		-	G	Anal	Bell	AC	22 (1950) 1005
		-	-	Group anal	Hastings	AC	24 (1952) 612
C_8H_{16}	cis,trans-3,4-Dimethyl-3-hexene	-	-	Optical density	Johnston	AC	20 (1948) 805
C_8H_{16}	1,1-Di-isopropyl-ethylene	800-1700	Sol	Spec, Freq	Karabotsos	JOC	25 (1960) 1409
C_8H_{16}	1,1-Di-isopropyl-ethylene-1-C^{13}	800-1700	Sol	Spec, Freq	Karabotsos	JOC	25 (1960) 1409
C_8H_{16}	Ethylcyclohexane	1.1-1.8μ	Sol	Spec	Rose	JRNB	15 (1935) 151
		6400-8900	Sol	Spec, Assign	Rose	JRNB	19 (1937) 143
		1100-1800	-	Spec	Barnes	IEC	15 (1943) 659

		-	-	Thermo, Struct	Beckett	JACS	69 (1947)	2488
		15-24μ	L	Spec	Plyler	JOSA	37 (1947)	746
		9-13μ	-	Spec	Foster	JACS	70 (1948)	2303
		9-14μ	L	Spec	Fred	AC	21 (1949)	900
		800-9000	Sol	Anal	Hibbard	AC	21 (1949)	486
		2-4.2μ	Sol	Spec, Assign	Plyler	JRNB	43 (1949)	37
		-	G	Anal	Bell	AC	22 (1950)	1005
		3.4μ	Sol	Anal	Simard	AC	23 (1951)	1384
		-	-	Group anal	Hastings	AC	24 (1952)	612
		-	-	Ident	Benkeser	JACS	77 (1955)	3230
		186-2976	-	Spec, Assign	Aleksandrov	OS	5 (1958)	128
		15-35μ	S	Spec, Struct	Bentley	SA	15 (1959)	165
C_8H_{16}	2-Ethyl-1-hexene	-	-	Anal	Anderson	AC	20 (1948)	998
		-	-	Optical density	Johnston	AC	20 (1948)	805
C_8H_{16}	Isopropylcyclopentane	15-24μ	L	Spec	Plyler	JOSA	37 (1947)	746
		800-9000	Sol	Anal	Hibbard	AC	21 (1949)	486
		3.2-3.6μ	Sol	Spec, Assign	Plyler	JRNB	43 (1949)	37
		-	G	Anal	Bell	AC	22 (1950)	1005
		-	-	Group anal	Hastings	AC	24 (1952)	612
		-	-	Freq, Struct	O'Connor	JACS	76 (1954)	2368
		15-35μ	S	Spec, Strut	Bentley	SA	15 (1959)	165
C_8H_{16}	1-Methyl-1-ethyl-cyclopentane	-	G	Anal	Bell	AC	22 (1950)	1005
		-	-	Group anal	Hastings	AC	24 (1952)	612
C_8H_{16}	1-Methyl-cis,2-ethylcyclopentane	-	G	Anal	Bell	AC	22 (1950)	1005
		-	-	Group anal	Hastings	AC	24 (1952)	612
C_8H_{16}	trans-1,2-Methyl-ethylcyclopentane	-	G	Anal	Bell	AC	22 (1950)	1005
		-	-	Group anal	Hastings	AC	24 (1952)	612
C_8H_{16}	(cis+trans)-Methyl 3-ethylcyclopentane	-	G	Anal	Bell	AC	22 (1950)	1005
C_8H_{16}	2-Methyl-1-heptene	2-15μ	G	Spec, Assign	Rasmussen	JCP	15 (1947)	135
		700-1500	-	IR, Assign, Freq	Sheppard	PRS	196 (1949)	195
C_8H_{16}	6-Methyl-1-heptene	2-15μ	G	Spec, Assign	Rasmussen	JCP	15 (1947)	135
		700-1500	-	Spec, Assign	Sheppard	PRS	196 (1949)	195

C_8H_{16}	1-Octene	1-30μ	G	Spec	Kettering	P	4	(1933)	39
		800-1100	-	Spec, Assign	Thompson	PRS	184	(1945)	3
		2-15μ	G	Spec, Assign	Rasmussen	JCP	15	(1947)	135
		-	-	Optical density	Johnston	AC	20	(1948)	805
		3.2-3.6μ	-	Spec	Saier	AC	20	(1948)	812
		-	-	Anal	Hampton	AC	21	(1949)	923
		700-1500	-	IR, Assign	Sheppard	PRS	196	(1949)	195
		-	Sol	Optical density	Treumann	AC	21	(1949)	1161
		-	-	Band study	Bateman	JCS	-	(1950)	941
		-	-	Group freq	Bryant	JACS	75	(1953)	6113
		-	-	Absorption study	Binder	AC	26	(1954)	1877
		10-15μ	L	Spec, Epoxy study	Patterson	AC	26	(1954)	823
		1-2.8μ	L,Sol	Spec, Ext coeff	Goddu	AC	29	(1957)	1790
		3400-3800	Sol	H bond	West	JACS	81	(1959)	1614
		-	-	Band assign	Harrah	JCP	33	(1960)	298
C_8H_{16}	2-Octene	800-1100	-	Spec, Assign	Thompson	PRS	184	(1945)	3
		2-15μ	G	Spec, Assign	Rasmussen	JCP	15	(1947)	135
		-	-	Optical density	Johnston	AC	20	(1948)	805
		3.2-3.6μ	-	Spec, Anal	Saier	AC	20	(1948)	812
		9-14μ	L	Spec	Fred	AC	21	(1949)	900
		700-1500	-	IR, Assign, Freq	Sheppard	PRS	196	(1949)	195
		2-15μ	L	Spec	Putscher	AC	24	(1952)	1551
C_8H_{16}	trans-2-Octene	-	-	Stretch freq	Leonard	JACS	74	(1952)	1704
		-	L	Anal, Group freq, Iso	Morton	JOC	20	(1955)	839
C_8H_{16}	3-Octene	2-15μ	G	Assign, Spec	Rasmussen	JCP	15	(1947)	135
		9-14μ	L	Spec	Fred	AC	21	(1949)	900
		700-1500	-	IR, Assign, Freq	Sheppard	PRS	196	(1949)	195
C_8H_{16}	cis-3-Octene	-	-	Ident	Benkeser	JACS	77	(1955)	3378
C_8H_{16}	trans-3-Octene	-	-	Ident	Benkeser	JACS	77	(1955)	3378
C_8H_{16}	cis-4-Octene	-	L	Anal	Binder	AC	26	(1954)	1877

C_8H_{16}	trans-4-Octene	2-15 μ	G	Spec, Assign	Rasmussen	JCP	15 (1947)	135
		-	-	Optical density	Johnston	AC	20 (1948)	805
		9-14 μ	L	Spec	Fred	AC	21 (1949)	900
		-	-	Anal	Hompton	AC	21 (1949)	923
		700-1500	-	IR, Assign, Freq	Sheppard	PRS	196 (1949)	195
		-	L	Anal	Binder	AC	26 (1954)	1877
C_8H_{16}	n-Propylcyclo-pentane	-	G	Anal	Bell	AC	22 (1950)	1005
		-	-	Group anal	Hastings	AC	24 (1952)	612
		-	-	Band freq, Struct	O'Connor	JACS	76 (1954)	2368
C_8H_{16}	1,1,2-Trimethyl-cyclopentane	-	G	Anal	Bell	AC	22 (1950)	1005
		-	-	Group anal	Hastings	AC	24 (1952)	612
C_8H_{16}	1,1,3-Trimethyl-cyclopentane	-	G	Anal	Bell	AC	22 (1950)	1005
		-	-	Group anal	Hastings	AC	24 (1952)	612
C_8H_{16}	1,cis-2, cis-3-Trimethylcyclo-pentane	-	G	Anal	Bell	AC	22 (1950)	1005
		-	-	Group anal	Hastings	AC	24 (1952)	612
		-	-	Ident	Pines	JACS	76 (1954)	4412
C_8H_{16}	1,trans-2,cis-3-Trimethylcyclo-pentane	-	G	Anal	Bell	AC	22 (1950)	1005
		-	-	Group anal	Hastings	AC	24 (1952)	612
C_8H_{16}	1,cis,2-cis,3-trans-Trimethylcyclo-pentane	-	G	Anal	Bell	AC	22 (1950)	1005
		-	-	Group anal	Hastings	AC	24 (1952)	612
C_8H_{16}	1-cis,2-cis,4-cis-Trimethylcyclo-pentane	-	G	Anal	Bell	AC	22 (1950)	1005
C_8H_{16}	1,2-cis,4-trans-Trimethylcyclo-pentane	3.2-3.6 μ	Sol	Spec, Assign	Plyler	JRNB	43 (1949)	37
		-	-	Anal	Bell	AC	22 (1950)	1005
		-	-	Group anal	Hastings	AC	24 (1952)	612

C_8H_{16}	1,2-trans,4-cis-Trimethylcyclopentane	2-15μ	L	Spec	Plyler	JRNB	38	(1947)	211
		-	G	Anal	Bell	AC	22	(1950)	1005
		-	-	Group anal	Hastings	AC	24	(1952)	612
C_8H_{16}	2,3,3-Trimethyl-1-pentene	-	-	Anal	Anderson	AC	20	(1948)	998
		2-15μ	-	Spec, Anal, Band freq	Brown	JACS	77	(1955)	3619
C_8H_{16}	2,3,4-Trimethyl-2-pentene	-	L	I, Freq	Kletz	JCS	-	(1948)	1456
C_8H_{16}	2,4,4-Trimethyl-1-pentene	2-15μ	G	Spec, Assign	Rasmussen	JCP	15	(1947)	135
		-	-	Anal	Anderson	AC	20	(1948)	998
		8.5-14μ	G	Spec	Gallaway	JACS	70	(1948)	2584
		-	L	I, Freq	Kletz	JCS	-	(1948)	1456
		3.2-3.6μ	-	Spec	Saier	AC	20	(1948)	812
		700-1500	-	IR, Assign, Freq	Sheppard	PRS	196	(1949)	195
		-	Sol	Ext coeff	Barnard	JCS	-	(1950)	915
		5300-9000	L	Spec, Group freq, I	Lauer	APS	6	(1952)	29
		-	-	Anal	Hadley	JCS	-	(1954)	1416
		15-35μ	S	Spec, Struct	Bentley	SA	15	(1959)	165
C_8H_{16}	2,4,4-Trimethyl-2-pentene	8.5-14μ	L	Spec	Gallaway	JACS	70	(1948)	2584
		-	L	I, Freq	Kletz	JCS	-	(1948)	1456
		3.2-3.6μ	-	Spec	Saier	AC	20	(1948)	812
		700-1500	-	Spec, Assign	Sheppard	PRS	196	(1949)	195
		5300-9000	L	Spec, Group freq, I	Lauer	APS	6	(1952)	29
		-	-	Anal	Hadley	JCS	-	(1954)	1416
		-	Sol	Anal	Saier	AC	26	(1954)	1258
C_8H_{16}	3,4,4-Trimethyl-2-pentene	-	L	I, Freq	Kletz	JCS	-	(1948)	1456
$C_8H_{16}N_2O$	4-Methylamino-1,6-dimethyl-2-piperidone	3600-600	L	Absorption tables	Edwards	CJC	32	(1954)	683
$C_8H_{16}N_2O_2$	Acetyl-L-valine-N-methyl amide	2.8-3.1μ	Sol	Spec, Group freq, Struct	Mizushima	JACS	76	(1954)	2479
		2800-3500	Sol	Mol config	Tsuboi	JACS	81	(1959)	1406

$C_8H_{16}N_2O_2$	2-Propyl-3-nitroso-4-ethyloxazolidine	2.5-10μ	L	Spec, Group freq, Struct	Nace	JACS	74	(1952) 5189
		-	L	Ident	Goldberg	JACS	75	(1953) 6260
		-	L	Ident	Nace	JACS	75	(1953) 3646
$C_8H_{16}N_2O_3$	Glycyl-L-leucine	4000-650	S	Spec, Struct	Blout	JACS	74	(1952) 1946
$C_8H_{16}N_2O_3$	L-Leucylglycine	4000-650	S	Spec, Struct	Blout	JACS	74	(1952) 1946
$C_8H_{16}N_2O_4$	1,1-Dinitrooctane	-	-	Spec	Novikov	IANS	-	(1959) 1855
$C_8H_{16}N_4S$	5-(n-Heptylamino)-1,2,3,4-thiatrizole	700-1700	S	Spec, Struct, Assign, Taut	Lieber	CJC	36	(1958) 801
$C_8H_{16}N_6O_2$	Acetylacetone semicarbazide	700-3500	S	Ident, Assign	Davison	JCS	-	(1955) 3389
$C_8H_{16}O$	cis-1-Butenyl butyl ether	840-1800	Sol	Spec, Group freq, Struct	Hall	JCS	-	(1951) 3341
$C_8H_{16}O$	trans-1-Butenyl butyl ether	840-1800	Sol	Spec, Group freq, Struct	Hall	JCS	-	(1951) 3341
$C_8H_{16}O$	1-t-Butyl-2-methyltrimethylene oxide	2.5-15μ	-	Spec	Rust	JACS	76	(1954) 1055
$C_8H_{16}O$	t-Butyl isopropyl ketone	-	G,L, Sol	Carbonyl freq	Bellamy	JCS	-	(1957) 4294
$C_8H_{16}O$	β-Cyclohexylethanol	2-16μ	L	Spec	Entel	JACS	73	(1951) 4152
$C_8H_{16}O$	α-Cyclohexylethanol	-	L	Anal, I	Smith	JACS	76	(1954) 4564
$C_8H_{16}O$	Cyclooctanol	665-5000	L	Band freq	Zeiss	JACS	75	(1953) 897
$C_8H_{16}O$	1,2-Epoxyoctane	2-15μ	L	Spec, Group freq	Patterson	AC	26	(1954) 823
		2-15μ	Sol	Spec, Struct, Group freq	Bomstein	AC	30	(1958) 544

$C_8H_{16}O$	1,2-Epoxy-2,4,4-trimethylpentane	800-1800	-	Spec	Gasson	JCS	-	(1954)	2161
		2-15μ	Sol	Spec, Struct, Group freq	Bomstein	AC	30	(1958)	544
$C_8H_{16}O$	2,3-Epoxy-2,4,4-trimethylpentane	800-1800	-	Spec	Gasson	JCS	-	(1954)	2161
		2-15μ	Sol	Spec, Struct, Group freq	Bomstein	AC	30	(1958)	544
$C_8H_{16}O$	2-Ethoxyhex-1-ene	650-3150	L	Table, Band freq, I	Meakins	JCS	-	(1953)	4170
$C_8H_{16}O$	1-Ethylcyclohexanol	-	L	Anal, I	Smith	JACS	76	(1954)	4564
$C_8H_{16}O$	2-Ethylcyclohexanol	2-16μ	L	Spec, Anal	Entel	JACS	73	(1951)	4152
$C_8H_{16}O$	2-Ethylhexaldehyde	-	Sol	Group & band freq	Pinchas	AC	27	(1955)	2
$C_8H_{16}O$	β-Isobutyltetrahydrofuran	2-15μ	L	Spec	Quilico	TE	1	(1957)	177
$C_8H_{16}O$	2-Methylcyclohexanemethanol	2-16μ	-	Spec	Entel	JACS	74	(1952)	441
		-	-	Ident	Entel	JACS	76	(1954)	3646
$C_8H_{16}O$	cis-2-Methylcyclohexylmethanol	1300-3650	Sol	Freq , I	Cole	JCS	-	(1959)	1222
$C_8H_{16}O$	trans-2-Methylcyclohexylmethanol	1300-3650	Sol	Freq , I	Cole	JCS	-	(1959)	1222
$C_8H_{16}O$	cis-3-Methylcyclohexylmethanol	1300-3650	Sol	Freq , I	Cole	JCS	-	(1959)	1222
$C_8H_{16}O$	2-Methyl-2-heptenol-6	700-1800	L	Spec, Struct, Group freq	Barnard	JCS	-	(1950)	915
$C_8H_{16}O$	6-Methyl-trans-4-heptenol-1	-	-	Config	Crombie	JCS	-	(1955)	1025

$C_8H_{16}O$	Methyl n-hexyl ketone	500-1750	L	Assign	Thompson	JCS	-	(1945)	640
		-	G	Band freq	Hartwell	JCS	-	(1948)	1436
		1800-1650	Sol	Ext coeff	Cross	TFS	47	(1951)	354
		-	Sol	Substitution effect	Thompson	SA	9	(1957)	208
$C_8H_{16}O$	Methyl 2-methyl-cyclohexyl ether	400-4000	Sol	Spec, Ext coeff, Config	Cummins	JCS	-	(1957)	3847
$C_8H_{16}O$	Methylpropylcyclo-propylcarbinol	-	L,Sol	Band freq	Slabey	JACS	76	(1954)	3604
$C_8H_{16}O$	Methylisopropyl-cyclopropyl carbinol	-	L,Sol	Band freq	Slabey	JACS	76	(1954)	3604
$C_8H_{16}O$	n-Octanal	-	-	Band freq	Crombie	JCS	-	(1955)	1007
$C_8H_{16}O$	3-Octanone	1600-1800	Sol	Band freq	Fuson	JACS	76	(1954)	2526
$C_8H_{16}O$	trans-n-4-Octenol-1	8-12μ	L	Spec, Struct	Crombie	JCS	-	(1950)	1707
$C_8H_{16}O$	2,2,4,4-Tetramethyl-tetrahydrofuran	2.5-15μ	-	Spec	Rust	JACS	76	(1954)	1055
$C_8H_{16}OS$	Butylthio butyrate	2.5-16μ	Sol	Struct effect on freq	Nyquist	SA	15	(1959)	514
$C_8H_{16}OS$	Hexylthio acetate	2.5-16μ	Sol	Struct effect on freq	Nyquist	SA	15	(1959)	514
$C_8H_{16}OS$	Methyl isobutyl ketone ethylene hemithioketal	-	Sol	Band freq	Djerassi	JACS	75	(1953)	3704
$C_8H_{16}OS$	1-(Tetrahydrothia-pyran-4)-1-propanol	-	L	Band study	Cockburn	JACS	76	(1954)	5703
$C_8H_{16}O_2$	n-Amyl propionate	500-1750	L	Assign	Thompson	JCS	-	(1945)	640
		-	G	Band freq	Hartwell	JCS	-	(1948)	1436
		-	Sol	Band vib, I	Richards	TFS	45	(1949)	874
		-	Sol	Band freq	Russell	JCS	-	(1955)	479

$C_8H_{16}O_2$	n-Butyl isobutyrate	20.7-152μ	S	Transmission	Seifert	RSI	11	(1940)	365
		500-1750	L	Assign	Thompson	JCS	-	(1945)	640
		-	G	Band freq	Hartwell	JCS	-	(1948)	1436
$C_8H_{16}O_2$	n-Butyl n-butyrate	500-1750	L	Assign	Thompson	JCS	-	(1945)	640
		-	G	Band freq	Hartwell	JCS	-	(1948)	1436
$C_8H_{16}O_2$	cis-Cyclooctane-1,2-diol	-	Sol	Band freq	Kuhn	JACS	76	(1954)	4323
$C_8H_{16}O_2$	trans-Cyclooctane-1,2-diol	-	Sol	Band freq	Kuhn	JACS	76	(1954)	4323
$C_8H_{16}O_2$	cis-Cyclooctane-1,5-diol	-	Sol	Band freq	Kuhn	JACS	76	(1954)	4323
$C_8H_{16}O_2$	trans-Cyclooctane-1,5-diol	-	Sol	Group freq	Kuhn	JACS	76	(1954)	4323
$C_8H_{16}O_2$	cis-1,4-Dimethoxy-cyclohexane	-	-	Group freq	Henbest	JCS	-	(1957)	1462
$C_8H_{16}O_2$	trans-1,4-Dimethoxy-cyclohexane	-	-	Group freq	Henbest	JCS	-	(1957)	1462
$C_8H_{16}O_2$	3,5-Dimethylhexanoic acid	6.5-8.5μ	L	Ident	Guertin	AC	28	(1956)	1194
$C_8H_{16}O_2$	cis-1,2-Dimethylol-cyclohexane	3μ	Sol	Band freq	Kuhn	JACS	74	(1952)	2492
$C_8H_{16}O_2$	trans-1,2-Dimethylol-cyclohexane	3μ	Sol	Band freq	Kuhn	JACS	74	(1952)	2492
$C_8H_{16}O_2$	Ethyl caproate	1-12μ	Sol	Spec, Ext coeff, Table	O'Connor	JAOC	28	(1951)	154
$C_8H_{16}O_2$	2-Ethylhexanoic acid	2-14μ	S	Spec	Harple	AC	24	(1952)	635
		6.5-8.5μ	L	Ident	Guertin	AC	28	(1956)	1194

$C_8H_{16}O_2$	3-Ethylhexanoic acid	6.5-8.5μ	L	Ident	Guertin	AC	28 (1956) 1194
$C_8H_{16}O_2$	4-Ethylhexanoic acid	6.5-8.5μ	L	Ident	Guertin	AC	28 (1956) 1194
$C_8H_{16}O_2$	Isoamylpropionate	-	-	IR	High	PR	38 (1931) 1837
		-	-	IR	Morris	PR	38 (1931) 141
$C_8H_{16}O_2$	Isobutyl isobutyrate	500-1750	L	Assign	Thompson	JCS	- (1945) 640
		-	G	Band freq	Hartwell	JCS	- (1948) 1436
$C_8H_{16}O_2$	1-Methoxy-2-heptanone	-	-	Ident	Stevens	JACS	76 (1954) 4402
$C_8H_{16}O_2$	Methyl n-heptanoate	-	-	Ident	Cairns	JACS	74 (1952) 5636
		6.84-13.72μ	L	Spec, Table, Band freq	Fowler	JOSA	43 (1953) 1054
$C_8H_{16}O_2$	5-Methylheptanoic acid	6.5-8.5μ	L	Ident	Guertin	AC	28 (1956) 1194
$C_8H_{16}O_2$	4-Methyl-2-pentyl acetate	2-15μ	-	Spec, Anal	Brown	JACS	77 (1955) 3614
$C_8H_{16}O_2$	n-Octanoic acid	2-16μ	Sol	Spec	Howton	JOC	16 (1951) 1405
		1-12μ	Sol	Spec, Ext coeff, Table	O'Connor	JAOC	28 (1951) 154
		2-14μ	S	Spec	Harple	AC	24 (1952) 635
		6.81-13.77μ	L	Spec, Group freq, Table, I	Fowler	JOSA	43 (1953) 1054
		6.5-8.5μ	L	Ident	Guertin	AC	28 (1956) 1194
		9-3μ	Sol	IR	Holman	AC	28 (1956) 1533
		3500-670	L,S	Spec	Corish	JCS	- (1957) 1746
		-	Sol	Freq	Goulden	SA	6 (1954) 129
$C_8H_{16}O_3$	2-Ethoxy-5-hydroxymethyltetrahydropyran	-	-	Group freq	Marvel	JACS	75 (1953) 4601

$C_8H_{16}O_3$	α-Hydroxycyclohexanone dimethyl ketal	-	-	Group freq	Stevens	JACS	76	(1954)	715
$C_8H_{16}O_3$	3-Hydroxy-2,3-dimethylbutanoic acid ethyl ester	3.09-13.75μ	L	Table	Hatch	JACS	75	(1953)	3712
$C_8H_{16}O_3S$	8-Thiol-6-hydroxyoctanoic acid	-	-	Ident	Bullock	JACS	76	(1954)	1828
$C_8H_{16}O_4$	Ethyl 2,3-dideoxy-α-D-glucopyranoside	-	S	Group & band freq, I	Barker	JCS	-	(1954)	4211
$C_8H_{16}O_4Se_2$	Diselenium-α-diisobutyric acid	2-40μ	-	Assign	Bergson	ARK	13	(1958)	11
$C_8H_{16}O_4Se_2$	Diselenium-γ-dibutyric acid	2-40μ	-	Assign	Bergson	ARK	13	(1958)	11
$C_8H_{16}O_5$	1,1-Bis acetamido-1-deoxy-D-erythrose	650-1800	S	Spec, Ident	Bourne	JCS	-	(1954)	4009
$C_8H_{16}O_5$	1,1-Bis acetamido-1-deoxy-L-erythrose	650-1800	S	Spec, Ident	Bourne	JCS	-	(1954)	4009
$C_8H_{16}O_5$	Ethyl 2-deoxy-α-D-glucopyranoside	-	S	Group & band freq, I	Barker	JCS	-	(1954)	4211
$C_8H_{16}O_5$	2,3,4-Tri-O-methyl-α-D-xylopyranose	-	S	Band freq, I	Barker	JCS	-	(1954)	3468
$C_8H_{16}O_6$	2,3-Di-O-methyl-β-D-glucopyranose	-	S	Group & band freq, I	Barker	JCS	-	(1954)	171
$C_8H_{18}O_6$	3,4-Di-O-methyl-α-D-glucopyranose	-	S	Group & band freq, I	Barker	JCS	-	(1954)	171

$C_8H_{16}O_6$	Ethyl α-D-glucofuranoside	700-1000	S	Group & band freq, I	Barker	JCS	-	(1954)	4550
$C_8H_{16}O_6$	Ethyl β-D-glucofuranoside	700-1000	S	Group freq, I	Barker	JCS	-	(1954)	4550
$C_8H_{16}O_6$	Ethyl α-D-glucopyranoside	-	S	Group & band freq, I	Barker	JCS	-	(1954)	4211
$C_8H_{16}O_6$	Methyl 2-O-methyl-α-D-glucopyranoside	-	S	Group freq, I	Barker	JCS	-	(1954)	171
$C_8H_{16}O_6$	Methyl 4-O-methyl-β-D-glucopyranoside	-	S	Group & band freq, I	Barker	JCS	-	(1954)	171
$C_8H_{16}O_6$	Methyl 6-O-methyl-β-D-glucopyranoside	-	S	Group & band freq, I	Barker	JCS	-	(1954)	171
$C_8H_{16}O_6 \cdot H_2O$	3,4-Di-O-methyl-α-D-mannopyranose hydrate	-	S	Band freq, I	Barker	JCS	-	(1954)	3468
$C_8H_{17}DO$	n-Octanol-d_1	-	L	Band study	Quinan	JCP	21	(1953)	1896
		650-4000	G,L	IR, Group freq, Table, I	Quinan	AC	26	(1954)	1762
$C_8H_{17}Br$	1-Bromooctane	500-1500	L,S	Spec, Iso	Brown	TFS	50	(1954)	535
		-	L	Mole ratio	Yoshino	CJC	35	(1957)	339
$C_8H_{17}Cl$	2-Chloro-2,3,3-trimethylpentane	2-15μ	-	Spec, Band freq, Anal	Brown	JACS	77	(1955)	3619
$C_8H_{17}Cl$	3-Chloro-2,2,3-trimethylpentane	-	-	Indent, Anal	Schmerling	JACS	75	(1953)	6217
		2-15μ	-	Spec, Band freq, Anal	Brown	JACS	77	(1955)	3619
$C_8H_{17}Cl$	n-Octyl chloride	16-25μ	L	Solvent effect	Marrison	JSI	29	(1952)	233

$C_8H_{17}Cl$	s-Octyl chloride	-	-	Band freq	Corey	JACS	76	(1954)	6040
$C_8H_{17}ClO_2S$	n-Octanesulfonyl chloride	-	-	Spec, Assign	Geiseler	ZE	63	(1959)	1140
$C_8H_{17}Cl_3OSi$	Trichlorosilylbutyl butyl ether	-	-	Inductive effect	Josien	CPR	249	(1959)	826
$C_8H_{17}Cl_3OSi$	Trichlorosilylheptyl methyl ether	-	-	Inductive effect	Josien	CPR	249	(1959)	826
$C_8H_{17}Cl_3OSi$	Trichlorosilyl-hexyl ethyl ether	-	-	Inductive effect	Josien	CPR	249	(1959)	826
$C_8H_{17}N$	1-Butylethylamino-ethylene	-	-	Spec	Opitz	A	623	(1959)	112
$C_8H_{17}N$	1-Diethylamino-1-butene	-	-	Spec	Opitz	A	623	(1959)	112
$C_8H_{17}N$	2-Methyl-1-diethyl-amino-1-propene	-	-	Spec	Opitz	A	623	(1959)	112
$C_8H_{17}N$	1-Methyl-2-ethyl-piperidine	-	L	Spec	Leonard	JACS	77	(1955)	3269
$C_8H_{17}NO$	cis-2-Aminocyclo-octanol	-	Sol	Freq, Assign, Shift	Sicher	CCCC	24	(1959)	950
$C_8H_{17}NO$	trans-2-Aminocyclo-octanol	-	Sol	Freq, Assign, Shift	Sicher	CCCC	24	(1959)	950
$C_8H_{17}NO$	2-Butylideneamino-1-butanol	2.5-10 μ	L	Spec, Struct, Group freq	Nace	JACS	74	(1952)	5189
$C_8H_{17}NO$	ℓ-ψ-Conhydrine	600-4000	S	Spec, Band study	Heacock	CJC	34	(1956)	1782
$C_8H_{17}NO$	ℓ-ψ-Conhydrine hydrochloride	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

$C_8H_{17}NO.HCl$	l-ψ-Conhydrine hydrochloride	600-4000	S	Spec, Band study	Heacock	CJC	34	(1956)	1782
$C_8H_{17}NO$	ψ-Conhydrine	-	Sol	Band freq	Marion	JACS	73	(1951)	305
$C_8H_{17}NO$	N,N-Di-n-propyl-acetamide	-	L	Group freq	Robson	JACS	77	(1955)	498
$C_8H_{17}NO$	2-Methyl-2-isobutyl-oxazolidine	-	Sol	Group freq, Ext coeff	Bergman	JACS	75	(1953)	358
$C_8H_{17}NO$	2-Methyl-2-t-butyl-oxazolidine	-	Sol	Group freq, Ext coeff	Bergmann	JACS	75	(1953)	358
$C_8H_{17}NO$	Octanamide	-	-	Ident	Jones	JCS	-	(1953)	3719
$C_8H_{17}NO$	1-Piperidino-2-propanol	3.38-3.60 μ	S	Freq	Wright	JOC	24	(1959)	1362
$C_8H_{17}NO$	2-Propyl-4-ethyl-oxazolidine	2.5-10 μ	L	Struct, Spec, Group freq	Nace	JACS	74	(1952)	5189
		-	L	Spec	Nace	JACS	75	(1953)	3646
		-	L	Ident	Goldberg	JACS	77	(1955)	359
$C_8H_{17}NO_2$	DL-α-Amino-n-caprylic acid	1538-909	Sol	Spec	Parker	SA	16	(1960)	910
$C_8H_{17}NO_2$	N,N-Diethyl-γ-aminobutyric acid	-	Sol	Spec, Association, Freq	Barrow	JACS	80	(1958)	86
$C_8H_{17}NO_3$	n-Octyl nitrate	2-15 μ	Sol	Spec, Struct, Ext coeff	Carrington	SA	16	(1960)	1279
$C_8H_{17}NO_3$	2-Octyl nitrate	-	-	Spec	Merrow	JACS	77	(1955)	756
$C_8H_{17}NO_4.HCl.H_2O$	Mycaminose hydrochloride hydrate	2-12 μ	S	Spec, Band freq	Hochstein	JACS	77	(1955)	3353

$C_8H_{17}NS$	3-(1-Piperidyl) propanethiol	-	-	Band freq	Plaut	JACS	77	(1955)	1572
$C_8H_{17}N_3O$	N-Cyclohexylamino acetamidoxime	930-3500	S	Freq	Hollander	JOC	23	(1958)	1112
$C_8H_{17}N_3O$	Di-isopropyl ketone semicarbazone	700-3500	S	Assign, Ident	Davison	JACS	-	(1955)	3389
$C_8H_{17}N_3O$	Heptanal semi-carbazone	700-3500	S	Assign, Ident	Davison	JCS	-	(1955)	3389
$C_8H_{17}N_3O_4$	Diethyl 1,1-dimethyl triazan-2,3-dicarbo-xylate	-	S	Band freq, Struct	Kenner	JCS	-	(1952)	2089
$C_8H_{17}O_3S$	n-Octane-1-sulfonate	500-4000	S	Struct	Fujimori	BCSJ	32	(1959)	850
$C_8H_{17}O_4P$	Diethyl γ-ketobutyl-phosphonate	-	-	Ident	Myers	JACS	77	(1955)	3101
C_8H_{18}	2,2-Dimethylhexane	1.5-15μ	L	Spec	Oetjen	RMP	16	(1944)	260
		1.5-15μ	G	Spec	Oetjen	RMP	16	(1944)	265
		-	L	Anal	Glasgow	JRNB	38	(1947)	537
		-	-	Anal	Heigl	IEC	19	(1947)	293
		-	-	Absorption freq	Kent	AC	19	(1947)	290
		-	-	Freq	Sutherland	JCP	15	(1947)	153
		-	-	IR, Assign	Sheppard	JCP	16	(1948)	690
		-	-	Freq	Simpson	PRS	199	(1949)	169
		-	G	Anal	Bell	AC	22	(1950)	1005
		8-12μ	G	Spec, Anal	Coggeshall	AC	22	(1950)	381
		2900-1370	L	I	Francis	JCP	18	(1950)	861
		-	-	Group anal	Hastings	AC	24	(1952)	612
		-	-	Anal	Grosse	JACS	75	(1953)	1261
		-	-	Ident, Anal, Iso	Schmerling	JACS	75	(1953)	6217
		15-35μ	S	Spec, Struct	Bentley	SA	15	(1959)	165

C_8H_{18}	2,3-Dimethylhexane	1.5-15μ	L	Spec	Oetjen	RMP	16	(1944)	260
		1.5-15μ	G	Spec	Oetjen	RMP	16	(1944)	265
		-	-	Anal	Sweeney	IEC	16	(1944)	723
		-	-	Anal	Glasgow	JRNB	38	(1947)	537
		-	-	Anal	Heigl	IEC	19	(1947)	293
		-	-	Absorption freq	Kent	AC	19	(1947)	290
		8.5-135μ	-	Spec	Ceopetta	AC	20	(1948)	699
		8000-9000	Sol	Anal	Hibbard	AC	21	(1949)	486
		-	G	Anal	Bell	AC	22	(1950)	1005
		2900-1460	L	I	Francis	JCP	18	(1950)	861
		-	-	Anal, Ext coeff	Schneider	JACS	73	(1951)	5013
		-	-	Group anal	Hastings	AC	24	(1952)	612
		-	-	Anal	Schmerling	JACS	75	(1953)	4275
		-	-	Ident, Anal, Iso	Schmerling	JACS	75	(1953)	6217
C_8H_{18}	2,4-Dimethylhexane	1.5-15μ	L	Spec	Oetjen	RMP	16	(1944)	260
		1.5-15μ	L	Spec	Oetjen	RMP	16	(1944)	263
		-	-	Anal	Sweeney	IEC	16	(1944)	723
		-	L	Anal	Glasgow	JRNB	38	(1947)	537
		-	-	Anal	Heigl	IEC	19	(1947)	293
		-	-	Absorption freq	Kent	AC	19	(1947)	290
		-	-	Anal	Anderson	AC	20	(1948)	801
		8000-9000	Sol	Anal	Hibbard	AC	21	(1949)	486
		-	G	Anal	Bell	AC	22	(1950)	1005
		8-12μ	G	Spec, Anal	Coggeshall	AC	22	(1950)	381
		-	-	Anal, Ext coeff	Schneider	JACS	73	(1951)	5013
		-	-	Group anal	Hastings	AC	24	(1952)	612
		-	-	Anal	Donnaud	CPR	239	(1953)	1480
		-	-	Anal, Ident, Iso	Schmerling	JACS	75	(1953)	4275
		-	L	Anal	Schmerling	JACS	75	(1953)	6217
		700-350	-	Freq	Burwell	JACS	76	(1954)	5822
		15-35μ	S	Spec, Struct	Bentley	SA	15	(1959)	163
C_8H_{18}	2,5-Dimethylhexane	1.5-15μ	L	Spec	Oetjen	RMP	16	(1944)	260
		1.5-15μ	L	Spec	Oetjen	RMP	16	(1944)	263
		-	-	Anal	Sweeney	IEC	16	(1944)	723
		-	-	Freq	Kellner	TFS	41	(1945)	217
		-	-	Assing, FC	Ahonen	JCP	14	(1946)	625
		-	L	Anal	Glasgow	JRNB	38	(1947)	537

		-	-	Anal	Heigl	IEC	19	(1947)	293
		-	-	Absorption freq	Kent	AC	19	(1947)	290
		8000-9000	Sol	Anal	Hibbard	AC	21	(1949)	486
		-	G	Anal	Bell	AC	22	(1950)	1005
		8-12μ	G	Spec, Anal	Coggeshall	AC	22	(1950)	381
		-	-	Anal, Ext coeff	Schneider	JACS	73	(1951)	5013
		-	-	Group anal	Hastings	AC	24	(1952)	612
		-	-	Anal, Ident	Grosse	JACS	75	(1953)	1261
		-	-	Anal	Schmerling	JACS	75	(1953)	4275
		-	-	Anal	Burwell	JACS	76	(1954)	5822
		-	Sol	Band freq, Struct	O'Connor	JACS	76	(1954)	2368
		2.5-15μ	-	Spec, Ident	Rust	JACS	76	(1954)	1055
C_8H_{18}	3,3-Dimethylhexane	1.5-15μ	L	Spec	Oetjen	RMP	16	(1944)	260
		1.5-15μ	G	Spec	Oetjen	RMP	16	(1944)	265
		-	-	Absorption freq	Kent	AC	19	(1947)	290
		-	-	Spec, Anal	Ciapetta	AC	20	(1948)	699
		-	-	IR, Assign	Sheppard	JCP	16	(1948)	690
		-	G	Anal	Bell	AC	22	(1950)	1005
		-	-	Group anal	Hastings	AC	24	(1952)	612
C_8H_{18}	3,4-Dimethylhexane	1.5-15μ	L	Spec	Oetjen	RMP	16	(1944)	260
		1.5-15μ	G	Spec	Oetjen	RMP	16	(1944)	265
		-	-	Freq	Kellner	TFS	41	(1945)	217
		-	-	Assign, FC	Ahonen	JCP	14	(1946)	625
		-	L	Anal	Glasgow	JRNB	38	(1947)	537
		-	-	Anal	Heigl	IEC	19	(1947)	293
		-	-	Absorption freq	Kent	AC	19	(1947)	290
		8.5-13.5μ	-	Spec	Ceopetta	AC	20	(1948)	699
		-	G	Anal	Bell	AC	22	(1950)	1005
		-	-	Anal, Ext coeff	Schneider	JACS	73	(1951)	5013
		-	-	Group anal	Hastings	AC	24	(1952)	612
		-	-	Anal	Grosse	JACS	75	(1953)	1261
		700-350	L	Freq	Donnaud	CPR	239	(1954)	1480
C_8H_{18}	3-Ethylhexane	1.5-15μ	L	Spec	Oetjen	RMP	16	(1944)	260
		1.5-15μ	G	Spec	Oetjen	RMP	16	(1944)	265
		-	-	Absorption freq	Kent	AC	19	(1947)	290
		-	-	IR, Assign	Sheppard	JCP	16	(1948)	690
		8000-9000	Sol	Anal	Hibbard	AC	21	(1949)	486

		-	G	Anal	Bell	AC	22	(1950)	1005
		-	-	Group anal	Hastings	AC	24	(1952)	612
C_8H_{18}	2-Methyl-3-ethyl-pentane	1.5-15μ	L	Spec	Oetjen	RMP	16	(1944)	260
		1.5-15μ	G	Spec	Oetjen	RMP	16	(1944)	265
		-	-	Assign, FC	Ahonene	JCP	14	(1946)	625
		-	-	Absorption freq	Kent	AC	19	(1947)	290
		-	G	Anal	Bell	AC	22	(1950)	1005
		-	-	Group anal	Hastings	AC	24	(1952)	612
C_8H_{18}	3-Methyl-3-ethyl-pentane	1.5-15μ	L	Spec	Oetjen	RMP	16	(1944)	260
		1.5-15μ	G	Spec	Oetjen	RMP	16	(1944)	265
		-	-	Absorption freq	Kent	AC	19	(1947)	290
		-	-	Assign, IR	Sheppard	JCP	16	(1948)	690
		-	G	Anal	Bell	AC	22	(1950)	1005
		-	-	Group anal	Hastings	AC	24	(1952)	612
		15-35μ	S	Spec, Struct	Bentley	SA	15	(1959)	165
C_8H_{18}	2-Methylheptane	1.1-1.8μ	L	Spec	Bruun	JRNB	10	(1933)	465
		1.1-1.3μ	L	Spec	Leslie	JRNB	10	(1933)	609
		1150-1800	-	Spec	Barnes	IEC	15	(1943)	659
		1.5-15μ	L	Spec	Oetjen	RMP	16	(1944)	260
		1.5-15μ	G	Spec	Oetjen	RMP	16	(1944)	265
		-	-	Absorption freq	Kent	AC	19	(1947)	290
		-	-	Freq	Sutherland	JCP	15	(1947)	153
		-	-	IR, Assign	Sheppard	JCP	16	(1948)	690
		-	-	Freq	Simpson	PRS	199	(1949)	169
		-	G	Anal	Bell	AC	22	(1950)	1005
		-	-	Anal, Ext coeffect	Schneider	JACS	73	(1951)	5013
		-	-	Anal	Burwell	JACS	76	(1954)	5822
		15-35μ	S	Spec, Struct	Bentley	SA	15	(1959)	165
C_8H_{18}	3-Methylheptane	1.5-15μ	L	Spec	Oetjen	RMP	16	(1944)	260
		1.5-15μ	G	Spec	Oetjen	RMP	16	(1944)	265
		-	-	Absorption freq	Kent	AC	19	(1947)	290
		-	-	IR, Assign	Sheppard	JCP	16	(1948)	690
		-	G	Anal	Bell	AC	22	(1950)	1005

		-	-	Anal, Ext coeff	Schneider	JACS	73	(1951)	5013
		-	-	Group anal	Hastings	AC	24	(1952)	612
		-	-	Anal	Grosse	JACS	75	(1953)	1261
		-	-	Anal	Burwell	JACS	76	(1954)	5822
C_8H_{18}	4-Methylheptane	1.5-15μ	L	Spec	Cetjen	RMP	16	(1944)	260
		1.5-15μ	G	Spec	Cetjen	RMP	16	(1944)	265
		-	-	Assign, FC	Ahoner	JCP	14	(1946)	625
		-	-	Absorption freq	Kent	AC	19	(1947)	290
		-	-	IR, Assign	Sheppard	JCP	16	(1948)	690
		-	G	Anal	Bell	AC	22	(1950)	1005
		-	-	Anal, Ext coeff	Schneider	JACS	73	(1951)	5013
		-	-	Anal, Ext coeff	Schneider	JACS	73	(1951)	5013
		-	-	Group anal	Hastings	AC	24	(1952)	612
		-	-	Anal	Burwell	JACS	76	(1954)	5822
C_8H_{18}	n-Octane	0-2.5μ	L	Spec	Ellis	PR	23	(1924)	48
		2-14μ	L	Spec, Band freq	Ellis	PR	27	(1926)	298
		2825-2975	G	Freq difference	Meyer	JOSA	15	(1927)	257
		-	-	Group freq	Bonino	TFS	25	(1929)	876
		0-2.4μ	L	Spec	Lecomte	TFS	25	(1929)	864
		1.1-1.8μ	Sol	Spec	Liddel	JRNB	11	(1933)	599
		-	G	Assign	Adel	JCP	2	(1934)	627
		-	-	Thermo	Pitzer	CR	27	(1940)	39
		-	-	Vib anal	Rosenbaum	JCP	9	(1941)	295
		1200-1800	-	Spec	Barnes	IEC	15	(1943)	659
		1.5-15μ	L	Spec	Oetjen	RMP	16	(1944)	260
		1.5-15μ	L	Spec	Oetjen	RMP	16	(1944)	265
		-	-	Freq	Kellner	TFS	41	(1945)	217
		-	-	Assign, FC	Ahonen	JCP	14	(1946)	625
		3.2-3.6μ	-	Spec, Anal	Saier	AC	20	(1948)	812
		-	-	IR	Sheppard	JCP	16	(1948)	690
		-	Sol	Anal	Hibbard	AC	21	(1949)	486
		-	-	Vib freq	Mizushima	JACS	71	(1949)	1320
		-	-	Selection rule	Simanouti	JCP	17	(1949)	1102
		-	G	Anal	Bell	AC	22	(1950)	1005
		2900-1370	L	I	Francis	JCP	18	(1950)	861
		-	-	Group anal	Hastings	AC	24	(1952)	612

		5600-800	L	Spec, I	Lauer	APS	6	(1952)	29
		-	-	Anal	Grosse	JACS	75	(1953)	1261
		700-350	L	Freq, Table	Donneaud	CPR	239	(1954)	1480
		10-15μ	L	Spec, Expoxy study	Patterson	AC	26	(1954)	823
		1140-650	S	Freq, Assign	Tschamler	JCP	22	(1954)	1845
		-	-	Rocking freq	Corish	JCS	-	(1955)	2431
		600-1500	S	Spec, Freq, Assign	Pimentel	JCP	23	(1955)	376
		700-3000	Sol	Ext coeff	Jones	SA	9	(1957)	235
		-	-	Vib anal	Theimer	JCP	27	(1957)	1041
C_8H_{18}	2,2,3,3-Tetramethyl-butane	-	-	Thermo	Pitzer	CR	27	(1940)	39
		1.5-15μ	G	Spec	Oetjen	RMP	16	(1944)	265
		-	-	Assign, FC	Ahonen	JCP	14	(1946)	625
		400-5000	Sol	IR	Cleveland	JCP	18	(1950)	1320
		1250-500	-	Thermo	Scott	JACS	74	(1952)	883
		-	-	Anal	Grosse	JACS	75	(1953)	1261
		-	-	Freq	Sheppard	JCP	23	(1955)	582
C_8H_{18}	2,2,3-Trimethyl-pentane	1.5-15μ	L	Spec	Oetjen	RMP	16	(1944)	260
		1.5-15μ	L	Spec	Oetjen	RMP	16	(1944)	265
		-	-	Anal	Sweeney	IEC	16	(1944)	723
		2-22μ	S	Spec, Freq, Quant anal	Avery	JAP	18	(1947)	960
		-	L	Anal	Glassgow	JRNB	38	(1947)	537
		-	-	Anal	Heigl	AC	19	(1947)	293
		-	-	Absorption freq	Kent	AC	19	(1947)	290
		-	-	Anal, Iso	Anderson	AC	20	(1948)	801
		8000-9000	Sol	Anal	Hibbard	AC	21	(1949)	486
		-	G	Anal	Bell	AC	22	(1950)	1005
		-	-	Anal	Coggeshall	AC	22	(1950)	381
		-	-	Group anal	Hastings	AC	24	(1952)	612
		2-22μ	S	Spec, Freq, Quant anal	Schmerling	JACS	75	(1953)	6217
C_8H_{18}	2,2,4-Trimethyl-pentane	1-30μ	G	Spec	Kettering	P	4	(1933)	39
		1.1-1.8μ	Sol	Spec	Liddel	JRNB	11	(1933)	599
		-	-	Thermo	Pitzer	CR	27	(1940)	39
		1100-1800	-	Spec	Barnes	IEC	15	(1943)	659
		1.5-15μ	L	Spec	Oetjen	RMP	16	(1944)	260
		1.5-15μ	G	Spec	Oetjen	RMP	16	(1944)	265
		-	-	Anal	Sweeney	IEC	16	(1944)	723
		6.7-13.4μ	L	Spec	Schlesman	JOSA	35	(1945)	755

		2-22μ	S	Spec, Freq, Quant anal	Avery	JAP	18	(1947)	960
		-	L	Anal	Glasgow	JRNB	38	(1947)	537
		-	-	Anal	Heigl	IEC	19	(1947)	293
		-	-	Anal	Kent	AC	19	(1947)	290
		-	-	Anal	Anderson	AC	20	(1948)	801
		-	-	Anal	Anderson	AC	21	(1949)	911
		8000-9000	Sol	Spec, Anal	Hibbard	AC	21	(1949)	486
		-	G	Anal	Bell	AC	22	(1950)	1005
		-	-	Anal, Ext coeff	Schneider	JACS	73	(1951)	5013
		3.4μ	Sol	Anal	Simard	AC	23	(1951)	1384
		-	-	Group anal	Hastings	AC	24	(1952)	612
		6.5-9.5μ	L	Spec	Powell	APS	6	(1952)	3
		2-16μ	L	Spec	Anderson	JOSA	43	(1953)	221
		-	-	Anal	Grosse	JACS	75	(1953)	1261
		-	-	Anal	Schmerling	JACS	75	(1953)	4275
		700-350	L	Table, Freq	Donnaud	CPR	239	(1954)	1480
		2-15μ	L	Spec	Muller	AC	27	(1955)	23
		9-3μ	Sol	IR	Holman	AC	28	(1956)	1533
C_8H_{18}	2,3,3-Trimethyl-pentane	1.5-15μ	L	Spec	Oetjen	RMP	16	(1944)	260
		1.5-15μ	G	Spec	Oetjen	RMP	16	(1944)	265
		-	-	Anal	Sweeney	IEC	16	(1944)	723
		2-22μ	S	Spec, Freq, Quant anal	Avery	JAP	18	(1947)	960
		-	L	Anal	Glasgow	JRNB	38	(1947)	537
		-	-	Anal	Heigl	IEC	19	(1947)	293
		-	-	Absorption freq	Kent	AC	19	(1947)	290
		-	-	Anal	Anderson	AC	20	(1948)	801
		8.5-13.5μ	-	Spec	Ceopetta	AC	20	(1948)	699
		8000-9000	Sol	Anal	Hibbard	AC	21	(1949)	486
		-	G	Anal	Bell	AC	22	(1950)	1005
		-	G	Anal	Coggeshall	AC	22	(1950)	381
		-	-	Group anal	Hastings	AC	24	(1952)	612
		-	-	Anal	Schmerling	JACS	75	(1953)	4275
C_8H_{18}	2,3,4-Trimethyl-pentane	2.6-3.8μ	Sol	Spec, Assign	Fox	PRS	175	(1940)	208
		1000-1800	-	Spec	Barnes	IEC	15	(1943)	659
		1.5-15μ	L	Spec	Oetjen	RMP	16	(1944)	260
		1.5-15μ	G	Spec	Oetjen	RMP	16	(1944)	265

		-	-	Anal	Sweeney	IEC	16 (1944)	723
		-	-	Assign, FC	Ahonen	JCP	14 (1946)	625
		2-22μ	S	Spec, Freq, Quant anal	Avery	JAP	18 (1947)	960
		-	L	Anal	Glassgow	JRNB	38 (1947)	537
		-	-	Anal	Heigl	IEC	19 (1947)	293
		-	-	Absorption freq	Kent	AC	19 (1947)	290
		-	-	Anal	Anderson	AC	20 (1948)	801
		8.5-13.5μ	-	Spec	Ceapetta	AC	20 (1948)	699
		8000-9000	Sol	Anal	Hibbard	AC	21 (1949)	486
		-	G	Anal	Bell	AC	22 (1950)	1005
		-	G	Anal	Coggeshall	AC	22 (1950)	381
		-	-	Group anal	Hastings	AC	24 (1952)	612
		-	-	Anal	Schmerling	JACS	75 (1953)	4275
		-	-	Anal, Ident	Schmerling	JACS	75 (1953)	6217
$C_8H_{18}ClO_2PS$	Di-n-butylphosphoro-chloridothionate	-	-	Spec, Freq	Popkov	ZOK	29 (1959)	1998
$C_8H_{18}NO_5P$	N-Diethylphosphoryl-DL-alanine methyl ester	3-15μ	L,S	Spec, Group freq	Li	JACS	77 (1955)	3519
$C_8H_{18}NO_5P$	N-Diethylphos-phorylglycine ethyl ester	3-15μ	L,S	Spec, Group freq	Li	JACS	77 (1955)	3519
$C_8H_{18}N_2$	Di-t-butyldi-imide	3.4-11.52μ	-	Table, Struct	Beringer	JACS	75 (1953)	3984
$C_8H_{18}N_2O$	Dibutyl nitros-amine	-	Sol	Anal	Emmons	JOC	19 (1954)	1472
$C_8H_{18}N_2O$	2-Propyl-3-amino-4-ethyloxazol-idine	-	L	Group freq	Nace	JACS	75 (1953)	3646
$C_8H_{18}N_2O_2$	Dibutyl nitramine	-	-	Ident	Emmons	JOC	19 (1954)	1472
		-	-	Ident	Robson	JACS	77 (1955)	2453

$C_8H_{18}N_2O_2$	2-Methyl-2-nitroso-propane dimer	-	-	Group freq	Jander	JCS	-	(1954)	912
$C_8H_{18}N_2O_2$	cis-Nitrosoisobutane dimer	1000-1300	S	Spec, Struct	Gowenlock	JCS	-	(1957)	3927
$C_8H_{18}N_2O_2$	trans-Nitrosoiso-butane dimer	1000-1300	S	Spec, Struct	Gowenlock	JCS	-	(1957)	3927
$C_8H_{18}N_2O_2$	cis-Nitroso-n-butane dimer	1000-1300	S	Spec, Struct	Gowenlock	JCS	-	(1957)	3927
$C_8H_{18}N_2O_2$	trans-Nitroso-n-butane dimer	1000-1300	S	Spec, Struct	Gowenlock	JCS	-	(1957)	3927
$C_8H_{18}N_2O_2$	cis-Nitroso-s-butane dimer	1000-1300	S	Spec, Struct	Gowenlock	JCS	-	(1957)	3927
$C_8H_{18}N_2O_2$	trans-Nitroso-s-butane dimer	1000-1300	S	Spec, Struct	Gowenlock	JCS	-	(1957)	3927
$C_8H_{18}N_2O_2$	cis-Nitroso-t-butane dimer	1000-1300	S	Spec, Struct	Gowenlock	JCS	-	(1957)	3927
$C_8H_{18}O$	n-Butyl t-butyl ether	665-5000	L	Group freq	Ory	AC	32	(1960)	509
$C_8H_{18}O$	Di-n-butyl ether	0-2.5μ	L	Spec	Ellis	PR	23	(1924)	48
		2-7μ	L	Band study, Spec	Daniels	JACS	47	(1925)	2856
		7-2.5μ	L	Group study	Ellis	JACS	51	(1929)	1384
		-	-	Solvent effect	Gordy	JCP	7	(1939)	93
		-	-	Solvent effect	Gordy	JCP	7	(1939)	99
		-	-	Solvent effect	Gordy	JCP	7	(1939)	167
		-	-	Anal	Barnes	IEC	15	(1943)	659
		800-1500	-	Spec	Barnes	IEC	15	(1943)	659
		720-750	L	Band freq	Wiberly	AC	22	(1950)	841
		2588-2689	Sol	H bond, Freq	Searles	JACS	73	(1951)	3704

		-	-	Group freq	Bell	AC	25	(1953)	1720
		-	-	Ident	Cairns	JOC	18	(1953)	748
		-	-	Anal, Band freq	Emmons	JACS	75	(1953)	6047
		10-15μ	L	Spec, Epoxy study	Patterson	AC	26	(1954)	823
		3100-2800	Sol	Group study	Henbest	JCS	-	(1957)	1462
$C_8H_{18}O$	1-2,4-Dimethyl-hexan-4-ol	720-3400	-	Spec	Doering	JACS	72	(1950)	147
		810-840	L	Spec, Anal	Savitzky	RSI	21	(1950)	203
		665-5000	L	Band freq	Zeiss	JACS	75	(1953)	897
$C_8H_{18}O$	2-Ethyl-1-hexanol	350-4000	L,Sol	Band freq	Stuart	JCP	24	(1956)	559
$C_8H_{18}O$	2-Metnyl-1-heptanol	350-4000	L,Sol	Band freq	Stuart	JCP	24	(1956)	559
$C_8H_{18}O$	6-Methyl-2-heptanol	665-5000	L	Band freq	Zeiss	JACS	75	(1953)	897
$C_8H_{18}O$	3-Methyl-2-iso-propyl-1-butanol	100-1000	-	Spec	Wemelle	CPR	246	(1958)	3232
$C_8H_{18}O$	1-Octanol	52-152μ	L	Dispersion	Cartwright	PRS	154	(1936)	138
		6.9-4μ	L,Sol	Spec, H bond	Kinisey	JCP	5	(1937)	399
		7-14μ	-	Anal	Ashdown	JCS	-	(1948)	1454
		3.2-3.6μ	-	Spec, Anal	Saier	AC	20	(1948)	812
		2.7-3.2μ	Sol	H bond	Coggeshall	JACS	73	(1951)	5414
		-	L	Deformation band study	Quinan	JCP	21	(1953)	1896
		665-5000	L	Band freq	Zeiss	JACS	75	(1953)	897
		-	L	Band freq	Mosher	AC	27	(1955)	517
		350-4000	L,Sol	Band study	Stuart	JCP	24	(1956)	559
		3570-3700	Sol	Freq, I	Flynn	AJC	12	(1959)	575
$C_8H_{18}O$	2-Octanol	52-152μ	L,Sol	Ext coeff	Errera	TFS	33	(1937)	120
		7-14μ	-	Anal	Ashdown	JCS	-	(1948)	1454
		665-5000	L	Band freq	Zeiss	JACS	75	(1953)	897
		-	-	Ident	Urry	JACS	76	(1954)	450
		-	-	Ident	Merrow	JACS	77	(1955)	756
		-	L	Band study	Mosher	AC	27	(1955)	517
		1400-1600	Sol	Association	Ens	CJC	35	(1957)	170

$C_8H_{18}O$	3-Octanol	665-5000	L	Band freq	Zeiss	JACS	75	(1953)	897
$C_8H_{18}O$	4-Octanol	665-5000	L	Band freq	Zeiss	JACS	75	(1953)	897
$C_8H_{18}O$	2,2,3-Trimethyl-3-pentanol	2-15μ	-	Spec, Anal, Band freq	Brown	JACS	77	(1955)	3619
$C_8H_{18}O$	2,2,4-Trimethyl-3-pentanol	1-15μ	L	Spec	Smith	JRNB	46	(1951)	145
		665-5000	L	Band freq	Zeiss	JACS	75	(1953)	897
		-	-	Anal	Gasson	JCS	-	(1954)	2170
$C_8H_{18}O$	2,2,3-Trimethyl-2-pentanol	2-15μ	-	Spec, Anal, Band freq	Brown	JACS	77	(1955)	3619
$C_8H_{18}O$	2,4,4-Trimethyl-1-pentanol	-	-	Anal	Gasson	JCS	-	(1954)	2170
$C_8H_{18}O$	2,4,4-Trimethyl-2-pentanol	-	-	Ident	Graham	JCS	-	(1954)	2180
$C_8H_{18}OS$	Di-isobutyl sulfoxide	5.5-24μ	S,Sol	Spec, Band freq	Cymerman	JCS	-	(1951)	1332
		7-10μ	S,Sol	Assign	Haszeldine	JCS	-	(1955)	2901
$C_8H_{18}OS$	Di-n-butyl sulfoxide	1000-1500	Sol	Spec	Schreiber	AC	21	(1949)	1168
$C_8H_{18}O_2$	n-Butyl peroxide	6.73-13.52μ	-	Table, I	Welch	JACS	77	(1955)	551
$C_8H_{18}O_2$	s-Butyl peroxide	6.82-12.84μ	-	Table, I	Welch	JACS	77	(1955)	551
$C_8H_{18}O_2$	t-Butyl peroxide	2-15μ	L	Spec, Anal	Shreve	AC	23	(1951)	282
		-	-	Band study	Kornblum	JACS	74	(1952)	3079
		800-960	Sol	Band freq	Philpotts	AC	24	(1952)	638
		5-15μ	Sol	Spec	Minkoff	RPS	224	(1954)	176
		6.80-13.32μ	-	Table, I	Welch	JACS	77	(1955)	551
		665-5000	L,G	Group freq	Ory	AC	32	(1960)	509
$C_8H_{18}O_2$	2,2-Dimethyl-3-methylpentane-3-hydroperoxide	5-15μ	Sol	Spec, Band freq	Minkoff	PRS	224	(1954)	176

$C_8H_{18}O_2$	3-Ethyl-1,3-hexane-diol	700-1500	L	Spec, Ident	Shay	AC	26	(1954)	652
$C_8H_{18}O_2$	Isobutyl peroxide	6.8-12.4μ	-	I, Table	Welch	JACS	77	(1955)	551
$C_8H_{18}O_2$	n-Octyl hydroperoxide	5.5-14.5μ	L	Spec, Group freq	Mosher	AC	27	(1955)	517
$C_8H_{18}O_2$	2-Octyl hydroperoxide	5.5-14.5μ	L	Spec, Group freq	Mosher	AC	27	(1955)	517
$C_8H_{18}O_2S$	Di-n-butyl sulfone	1000-1500	Sol	Spec	Schreider	AC	21	(1949)	1168
		-	Sol	Freq	Rogers	JACS	78	(1956)	1790
$C_8H_{18}O_3$	Butyltrimethoxy-methane	-	-	Spec, Freq	Nukada	NKZ	81	(1960)	1028
$C_8H_{18}O_3$	Bis(β-ethoxyethyl) ether	1500-5000	Sol	Group freq	Briggs	AC	29	(1957)	904
$C_8H_{18}O_3$	Ethyl orthoacetate	-	Sol	Group freq, Struct	Barton	JCS	-	(1954)	2137
$C_8H_{18}O_3Si_2$	Bis-(allylmethyl)-disiloxanediol	-	-	Band freq, Assign	Frisch	JACS	74	(1952)	4584
$C_8H_{18}O_4$	Di(1-hydroxy-n-butyl)-1-peroxide	5-15μ	Sol	Spec, Band freq	Minkoff	PRS	224	(1954)	176
$C_8H_{18}S$	Di-isobutyl sulfide	2800-3000	Sol	Spec, Stretch freq	Pozefsky	AC	23	(1951)	1611
$C_8H_{18}S$	Di-n-butyl sulfide	6-2.8μ	L	Band study	Ellis	JACS	50	(1928)	2113
		1000-1500	Sol	Spec	Schreiber	AC	21	(1949)	1168
		500-1500	L	Spec, Assign	Sheppard	TFS	46	(1950)	429
		-	-	Group freq, Struct	Brandt	JCS	-	(1952)	2549
		-	-	Ident	Cairus	JOC	18	(1953)	748
$C_8H_{18}S$	n-Octyl mercaptan	2800-3000	Sol	Stretch freq	Pozefsky	AC	23	(1951)	1611

$C_8H_{18}S_2$	Di-isobutyl disulfide	-	-	Freq	Sheppard	TFS	46	(1950)	429
		2800-3000	Sol	Spec, Stretch freq	Pozefsky	AC	23	(1951)	1611
$C_8H_{18}S_2$	Di-n-butyl disulfide	400-1700	L	Spec, Assign	Trotter	JCS	-	(1946)	481
		500-1500	L	Spec, Assign	Sheppard	TFS	46	(1950)	429
		2800-3000	Sol	Spec, Stretch freq	Pozefsky	AC	23	(1951)	1611
		-	-	Group freq	Brandt	JCS	-	(1952)	2549
$C_8H_{18}S_2$	Di-t-butyl disulfide	-	-	Group freq	Brandt	JCS	-	(1952)	2549
$C_8H_{18}Si$	Triethylvinyl-silane	3-15 μ	L	Spec	Kozima	BCSJ	27	(1954)	287
$C_8H_{18}Se$	Di-n-butylselenide	2-40 μ	-	Assign	Bergson	ARK	13	(1958)	11
$C_8H_{18}Se$	Di-sec-butylselnide	2-40 μ	-	Assign	Bergson	ARK	13	(1958)	11
$C_8H_{18}Se$	Di-t-butylselenide	2-40 μ	-	Assign	Bergson	ARK	13	(1958)	11
$C_8H_{19}N$	Dibutylamine	3100-3550	Sol	H bond	Lund	ACS	12	(1958)	298
$C_8H_{19}N$	Di-isobutylamine	2-15 μ	L	Freq assign, NCA	Stewart	JCP	30	(1959)	1259
$C_8H_{19}N$	Di-n-butylamine	1-12 μ	L	Spec	Bell	JACS	49	(1927)	1837
		6-2.4 μ	L	Group study	Ellis	JACS	50	(1928)	685
		6400-6800	Sol	Band study	Liddel	JACS	55	(1933)	3574
		6400-6700	Sol	Spec, Group anal	Wulf	JACS	57	(1935)	1464
		-	-	Solvent effect	Gordy	JCP	7	(1939)	93
		1050-1800	-	Spec	Barnes	IEC	15	(1943)	659
		720-750	L	Band freq	Wiberly	AC	22	(1950)	841
		-	-	Anal	Dannley	JOC	20	(1955)	92
		-	Sol	Band freq, Ext coeff, I	Russell	JCS	-	(1955)	483
		2-15 μ	L	Freq assign, NCA	Stewart	JCP	30	(1959)	1259
$C_8H_{19}N.HBr$	Di-n-butylamine	1000-3500	Sol,S	Freq, Band study	Chenon	CJC	36	(1958)	1181
		2000-4000	S	H bond	Brisette	CJC	38	(1960)	34

$C_8H_{19}N.HCl$	Di-n-butylamine hydrochloride	1000-3500	S,Sol	Freq, Band study	Chenon	CJC	36 (1958)	1181
$C_8H_{19}N.HI$	Di-n-butylamine hydriodide	1000-3500 2000-4000	S,Sol S	Freq, Band study Spec, H bond	Chenon Brisette	CJC CJC	36 (1958) 38 (1960)	1181 34
$C_8H_{19}N$	Di-s-butylamine	2-15μ	L	Freq assign, NCA	Stewart	JCP	30 (1959)	1259
$C_8H_{19}N$	t-Octylamine	2-15μ	L,Sol	Freq assign, NCA	Stewart	JCP	30 (1959)	1259
$C_8H_{19}N.HCl$	Dimethylhexylamine hydrochloride	2-8μ	Sol	Spec	Nakanishi	BCSJ	30 (1957)	403
$C_8H_{19}O$	2-n-Butylamino-1-butanol	-	L	Group freq, Struct	Nace	JACS	75 (1953)	3646
$C_8H_{19}NO$	2-Di-n-propylaminoethanol	3μ	Sol	Freq, H bond	Flett	SA	10 (1958)	21
$C_8H_{19}NO_4.HCl$	Mycaminitol hydrochloride	-	-	Review paper	Hochstein	JACS	77 (1955)	3353
$C_8H_{19}NS$	4-Diethylaminobutanethiol	-	L,Sol	Band freq	Plant	JACS	77 (1955)	1572
$C_8H_{19}N_3S$	4-n-Heptyl thiosemicarbazide	700-1700	S	Spec, Struct, Assign, Taut	Lieber	CJC	36 (1958)	801
$C_8H_{19}O_2PS_2$	O,O-Di-n-butylphosphorodithioic acid	450-500	L	Band assign	Mc Ivor	CJC	37 (1959)	869
$C_8H_{19}O_2PS_3$	O,O-Dimethyl-sthio-n-propoxymethylphosphorothionate	-	-	Spec, Freq	Popkov	ZOK	29 (1959)	1998
$C_8H_{19}O_2PS_3$	O,O-Diethyl-s-β-thioethoxyethylphosphorothiolothionate	-	-	Spec, Freq	Popkov	ZOK	29 (1959)	1998

$C_8H_{19}O_3P$	n-Butylhydrogen-n-butylphosphonate	600-5000	L,Sol	Spec, H Bond	Peppard	JINC	12	(1960)	60
$C_8H_{19}O_3P$	Di-n-butyl hydrogen-phosphite	-	-	Band freq	Bell	AC	25	(1953)	1720
$C_8H_{19}O_3P$	Di-n-butyl phosphite	2-21μ	L	Spec, Anal	Daasch	AC	23	(1951)	853
		-	-	Group freq, Shift	Bell	JACS	76	(1954)	5185
		-	-	Band freq	Bennett	JCS	-	(1954)	3598
$C_8H_{19}O_3P$	Di-t-butylphosphite	-	-	Spec	Young	JACS	75	(1953)	4620
$C_8H_{19}O_3P$	Diethyl butyl-phosphonate	700-1400	L	Spec, Group freq	Bellamy	JCS	-	(1952)	475
		-	-	Band freq, Shif	Bell	JACS	76	(1954)	5185
$C_8H_{19}O_3P$	Di-isopropyl ethyl-phsophonate	2-25μ	L	Spec, Table, Struct	Meyrick	JCS	-	(1950)	225
		-	-	Band freq, Shift	Bell	JACS	76	(1954)	5185
$C_8H_{19}O_3PS_2$	O,O-Diethyl-O-ethyl-mercaptoethyl-thiophosphate	-	-	Struct, Band freq	Garduer	AC	25	(1953)	1849
$C_8H_{19}O_4P$	Di-isobutyl hydrogen-phosphate	670-3500	-	Spec, Assign, Table	Bellamy	JCS	-	(1953)	728
$C_8H_{19}O_4P$	Di-n-butyl hydrogen-phosphate	670-3500	-	Spec, Assign, Table	Bellamy	JCS	-	(1953)	728
		500-4000	L,Sol	H bond	Peppard	JINC	7	(1958)	231
$C_8H_{19}O_4P$	Ethyl di-isopropyl-phosphate	900-1060	Sol	Band freq, I	Halwann	JCS	-	(1953)	626
$C_8H_{19}O_4P$	Mono-(2-Ethylhexyl) phosphoric acid	500-4000	Sol	H bond	Peppard	JINC	7	(1958)	231
$C_8H_{20}Cl_4NB$	Ethyl-di-isopropyl-ammoniumtetra-chloroborate	600-3500	S	Spec	Kynaston	JCS	-	(1960)	1772
$C_8H_{20}Cl_4NB$	Tetraethylammonium tetrachloroborate	600-3500	S	Spec	Kynaston	JCS	-	(1960)	1772

$C_8H_{20}Cl_4N_5P_3$	Diethylamino derivative of trimeric phsophoro-nitrilic chloride	1150-1350	-	Freq, Struct	Shaw	CIL	-	(1959)	54
$C_8H_{20}IN$	Tetraethylammonium iodide	28μ	Sol	Spec	Nakanishi	BCSJ	30	(1957)	403
$C_8H_{20}NO_2PS$	O,O-Diethyldiethyl-phosphoranidothioate	600-1050	Sol	Assign	McIvor	CJC	37	(1959)	869
$C_8H_{20}NO_2PS$	Diethyldiethylphosphora-midothionate	740-1500	Sol	Assign	McIvor	CJC	37	(1959)	869
$C_8H_{20}NO_3P$	Di-isopropyldimethyl phsophoramidoate	-	-	Spec, Freq	Maarsen	RTC	76	(1957)	713
$C_8H_{20}NO_4P$	Dimethylcyclohexyl-ammonium phosphate	-	-	Spec	Maarsen	RTC	76	(1957)	724
$C_8H_{20}N_2$	unsym-Dibutylhydrazine	-	-	Ident	Emmons	JOC	19	(1954)	1472
$C_8H_{20}N_2$	N,N-Di-isopropyl-ethylenediamine	8.38-3.60μ	S	Freq	Wright	JOC	24	(1959)	1362
$C_8H_{20}N_2$	Sym-Di-n-propyl-ethylenediamine	3-6.5μ	Sol	Spec	Woodburn	JOC	17	(1952)	1235
$C_8H_{20}N_2O_6$	2,4-Dinitroestrone	600-4000	S	Spec, H bond, Assign	Pickering	JACS	80	(1958)	680
$C_8H_{20}N_2S_2$	Dithiodiethylamine	700-1850	-	Spec	Barnes	IEC	15	(1943	659
$C_8H_{20}N_4O_2$	Diethylnitrosamine dimer		Sol, L,G	Stretch freq, Assign	Haszeldine	JCS	-	(1955)	4172
$C_8H_{20}OSi$	Triethylsiloxane	650-1375	G	Spec	Simon	JCP	20	(1952)	905
$C_8H_{20}OSi$	Trimethylsilyl-butyl methyl ether	-	-	Inductive effect	Josien	CPR	249	(1959)	826

$C_8H_{20}OSi$	Trimethylsilyl-methyl butyl ether	-	-	Inductive effect	Josien	CPR	249	(1959)	826
$C_8H_{20}OSi$	Trimethylsilyl-propyl ethyl ether	-	-	Inductive effect	Josien	CPR	249	(1959)	826
$C_8H_{20}OSi_2$	2,2,7,7-Tetramethyl-1-oxa-2,7-disila-cyclcheptane	-	L	Band study	Sommer	JACS	77	(1955)	2482
$C_8H_{20}O_2Si$	Dimethyl-di-isopropoxy-silane	700-1300	L	Spec, Table, Group assign	Richards	JCS	-	(1949)	124
$C_8H_{20}O_2Si$	Dimethyl-di-n-propxy-silane	750-1300	L	Spec, Table, Group assign	Richards	JCS	-	(1949)	124
$C_8H_{20}O_3Si$	Ethyltriethoxy-silane	700-3000	L	Spec, Table, Group assign	Richards	JCS	-	(1949)	124
		650-1350	G	Spec	Simon	JCP	20	(1952)	905
$C_8H_{20}O_4P_2S_3$	0,0,0,0-Tetraethyl-trithiopyrophos-phate	740-1500	L	Band freq	McIvor	CJC	37	(1959)	869
$C_8H_{20}O_4Si$	Ethyl orthosilicate	650-1375	G	Spec	Simon	JCP	20	(1952)	905
$C_8H_{20}O_4Si$	Tetraethoxysilane	-	-	Spec	Kriegsmann	ZE	62	(1958)	1163
		600-3500	L	Spec	Okawara	BCSJ	31	(1958)	154
$C_8H_{20}O_6P_2S$	Diisopropyl dimethyl-monothionopyro-phosphate	600-9000	S	Band freq	McIvor	CJC	37	(1959)	869
$C_8H_{20}O_6P_2S$	Tetraethylthionopyro-phosphate	-	-	Spec	Popkov	ZOK	29	(1959)	1998
$C_8H_{20}O_7P_2$	Tetraethyl pyro-phosphate	2-21 μ	Sol	Spec, Anal	Daasch	AC	23	(1951)	853
		700-1500	L	Spec, Group freq	Bellamy	JCS	-	(1952)	475
		-	Sol	Group freq	Bergmann	JCS	-	(1952)	847
		-	-	Band freq, Shift	Bell	JACS	76	(1954)	5185

$C_8H_{20}Si$	Di-n-butylsilane	2-13μ	Sol	Spec	West	JOC	18	(1953)	303
$C_8H_{20}Si$	Dimethyl-di-propyl-silane	2-16μ	L,Sol	Spec, Group freq	Kaye	JOC	18	(1953)	1750
		-	-	Group freq, Thermo	Tannenbaum	JACS	75	(1953)	3753
		-	-	Band study, Group freq	Harvey	JACS	76	(1954)	4555
$C_8H_{20}Si$	n-Octylsilane	2-16μ	Sol	Freq	Kniseley	SA	15	(1959)	651
$C_8H_{20}Si$	Tetraethylsilane	-	-	Assign	Anderson	JCP	4	(1936)	161
		-	-	Group freq, Thermo	Kaye	JOC	18	(1953)	1750
		2-16μ	Sol	Spec, Group freq	Tannenbaum	JACS	75	(1953)	3753
		-	-	Raview paper	George	JACS	77	(1955)	1677
$C_8H_{21}INO_3P$	Iodide of ethoxy methylphosphoryl chloride	-	-	Spec, Iso, Struct	Larsson	ACS	12	(1958)	587
$C_8H_{21}NO_4$	2-Nitroestrone	600-4000	S	Spec, H bond, Band assign	Pickering	JACS	80	(1958)	680
$C_8H_{21}NO_4$	4-Nitroestrone	600-4000	S	Spec, H bond, Band assign	Pickerning	JACS	80	(1958)	680
$C_8H_{21}NSi$	n-Butylamino-methyl-trimethylsilane	2-15μ	-	Spec	George	JACS	77	(1955)	3493
$C_8H_{22}N_2O_2Si$	Di-t-butoxy diaminosilane	2.82-14.8μ	L	Table, Band freq, I	George	JACS	75	(1953)	6308
$C_8H_{22}O_2$	Estrone	600-4000	S	Spec, H bond, Band assign	Pickering	JACS	80	(1958)	680
$C_8H_{22}O_3Si_2$	Diethoxytetramethyl-disiloxane	600-500	L	Spec	Okawara	BCSJ	31	(1958)	154
$C_8H_{22}B_2$	Tetraethyldiborane	1500-2850	-	Freq	Shapiro	JCP	29	(1958)	237
$C_8H_{23}NSi_2$	N,N-Di-(trimethyl-silyl)methylamine	-	-	Absorption study	Noll	JACS	73	(1951)	3871
		2-15μ	-	Spec	George	JACS	77	(1955)	3493

$C_8H_{24}Cl_2N_7P_3$	Dimethylamino derivative of trimeric phosphonirilic chloride	1150-1350	-	Freq shift, Struct	Shaw	CIL	-	(1959)	54
$C_8H_{24}N_2OSi_2$	Di-(dimethyl-β-ethylaminosilicyl) oxide	-	-	Absorption study	Noll	JACS	73	(1951)	3871
$C_8H_{24}N_4O_3P_2$	Octamethyl pyrophosphoramide	-	-	Ident	Tolkmith	JACS	75	(1953)	5273
		-	-	Ident	Tolkmith	JACS	75	(1953)	5276
$C_8H_{24}N_4O_8P_4$	Methyl ester of tetrameric phosphonitrilic acid	1250-1350	-	Freq shift, Struct	Shaw	CIL	-	(1959)	54
$C_8H_{24}O_2Si_3$	Octamethyltrisiloxane	2.5-14μ	Sol	Spec	Wright	JACS	69	(1947)	803
		500-1700	L	Spec, Table, Group assing	Richards	JCS	-	(1949)	124
					Kriegsmann	ZE	64	(1960)	541
		2-15μ	-	Thermo	Thompson	JCS	-	(1953)	1908
$C_8H_{24}O_4Si_3$	Dimethoxyhexamethyltrisiloxane	700-3500	L	Spec, Struct	Tanaka	BCSJ	31	(1958)	762
$C_8H_{24}O_4Si_4$	Octamethylcyclotetrasiloxane	2.5-14μ	Sol	Spec	Wright	JACS	69	(1941)	803
		2-16μ	Sol	Spec	Young	JACS	70	(1948)	3758
		500-1700	L	Spec, Table, Group assign	Richards	JCS	-	(1949)	124
		-	Sol	Assign, Struct	Kriegsmannh	ZAUA	298	(1958)	232
		2-16μ	Sol	Spec, Struct, Freq	Smith	SA	16	(1960)	87
$C_8H_{24}O_7Si_3$	Trimethylpentamethoxy trisiloxane	700-3500	L	Spec, Struct	Tanaka	BCSJ	31	(1958)	762
$C_8H_{24}O_8$	Ethylene glycol tetramer	700-1600	L	Freq, Config	Kuroda	JPS	26	(1957)	323
$C_8H_{24}O_{10}Si_3$	Octamethoxytrisiloxane	700-3500	L	Spec	Tanaka	BCSJ	31	(1958)	762
$C_8H_{24}O_{12}Si_8$	Octamethyl T_8	-	S	Group freq	Sprung	JACS	77	(1955)	3990
$C_8H_{26}O_3Si_4$	Octamethyltetrasoloxane	600-35	L	Spec, Freq	Sakiyama	BCSJ	31	(1958)	67
C_8D_8	Cyclooctatetraene-d_8	-	-	IR, Freq	Lippincott	JCP	16	(1948)	548
		200-3500	L,G	Spec, I	Lippincott	JACS	73	(1951)	3370

$C_8D_{11}NO_2S$	N-Methyltoluene-p-sulphonamide-d_{11}	600-1700	S,Sol	Spec, Freq, Assign	Hadzi	JCS	-	(1957)	847
$C_8F_{12}O_9B_3$	Tetratrifluoroacetyl diborate	1500-1800	S	Carbonyl freq, Assign	Duncanson	JCS	-	(1958)	3652
$C_8F_{17}N$	Perfluoro-4-isopropyl-piperidine	2-15μ	L	Spec	Halpern	APS	11	(1957)	173
$C_8F_{17}N$	Perfluoro-4-n-propyl-piperidine	2-15μ	L	Spec	Halpern	APS	11	(1957)	173
$C_8F_{18}O$	Di-nonafluoro-butyl ether	2-16μ	L	Spec	Henne	JACS	74	(1952)	5420

C_9 COMPOUNDS

$C_9H_2D_2O_3.H_2O$	Ninhydrin hydrate-d_2	600-3000	S	Spec, Freq	Anderson	SA	12	(1958)	233
$C_9H_2F_{13}I$	1,1,1,6,6,7,7,7,8,8-Decafluoro-2-iodo-4-trifluoromethyl-octa-2,4-diene	-	-	Freq	Leedham	JCS	-	(1954)	1634
$C_9H_2F_{13}I$	1,1,1,2,2,7,7,7-Octa-fluoro-3-iodo-5-pentafluoroethyl-hepta-3,5-diene	-	-	Freq	Leedham	JCS	-	(1954)	1634
$C_9H_3N_{13}$	Hydromelonic acid	2-15μ	S	Assign	Finkleshtein	OS	6	(1959)	33
$C_9H_4F_3NO_2$	4-Trifluoromethylisatin	1300-3500	Sol	Struct, H bond, Freq	O'Sullivan	JCS	-	(1957)	2202
$C_9H_4F_3NO_2$	7-Trifluoromethylisatin	1300-3500	Sol	Struct, H bond, Freq	O'Sullivan	JCS	-	(1957)	2202

$C_9H_4O_3.H_2O$	Ninhydrin hydrate	600-3000	S	Spec, Freq	Anderson	SA	12 (1958) 233
$C_9H_4O_5$	Tropolone-α,β-dicarboxylic acid anhydride		S	Freq	Crow	JCS	- (1952) 3705
$C_9H_4O_7$	Puberulonic acid	-	-	Freq, Struct	Johnson	JCS	- (1951) 1139
C_9H_5BrO	2-Bromoindenone	-	Sol	Analysis	Brutcher	CIL	- (1957) 1295
$C_9H_5Br_2NO$	5,7-Dibromo-8-hydroxyquinoline	3300-3400	Sol	Freq, H bond	Badger	JCS	- (1958) 3437
C_9H_5ClINO	5-Chloro-7-iodo-8-hydroxyquinoline	3300-3400	Sol	Freq, H bond	Badger	JCS	- (1958) 3437
C_9H_5ClO	2-Chloroindenone	-	Sol	Analysis	Brutcher	CIL	- (1957) 1295
$C_9H_5ClO_2$	3(p-chlorophenyl)-2-propynoic acid	2-15μ	Sol	Spec	Ard	AC	23 (1951) 133
$C_9H_5ClO_4$	6-Chloro-3-Methoxyphthalic anhydride	-	-	Ident	Kushner	JACS	74 (1952) 3710
$C_9H_5Cl_2NO$	5,7-Dichloro-8-hydroxyquinoline	3300-3400	Sol	Freq, H bond	Badger	JCS	- (1958) 3437
$C_9H_5Cl_2N_3$	2-Phenyl-4,6-dichloro-s-triazine	2-15μ	Sol	Assign	Reimbchussel	JACS	82 (1960) 3756
C_9H_5FINO	5-Fluoro-7-iodo-8-hydroxyquinoline	3300-3400	Sol	Freq, H bond	Badger	JCS	- (1958) 3437
$C_9H_5F_3O_3$	Benzoyl trifluoroacetate	-	-	Ident	Emmons	JACS	75 (1953) 6047
		-	-	Freq	Ferris	JACS	75 (1953) 232
		1000-1250	Sol	Freq, Ident	Bourne	JCS	- (1954) 2006
$C_9H_5F_5O$	Pentafluoroethyl phenyl ketone	650-5000	Sol	Freq	Griffin	SA	16 (1960) 1464

$C_9H_5I_2NO$	5,7-Diiodo-8-hydroxy-quinoline	3300-3400	Sol	Freq, H bond	Badger	JCS	-	(1958)	3437
$C_9H_5NO_4$	7-Carboxyisatin	-	-	Spec	Grundon	JACS	74	(1952)	2637
C_9H_6BrN	3-Bromoquinoline	1300-1700	Sol	Freq	Katritzky	JCS	-	(1960)	2942
C_9H_6BrNO	Monobromoquinoline-N-oxide	700-3000	-	Spec	Shindo	CPBP	8	(1960)	84[illegible]
$C_9H_6Br_2O$	2,2-Dibromoindanone	-	Sol	Anal	Brutcher	CIL	-	(1957)	1295
$C_9H_6Br_2O_3$	ω,ω-Dibromoacetophenone-O-carboxylic acid	-	S	Freq, Taut	Grove	JCS	-	(1951)	877
C_9H_6ClN	2-Chloroquinoline	1300-1700	Sol	Freq	Katritzky	JCS	-	(1960)	294[illegible]
C_9H_6ClN	6-Chloroquinoline	1300-1700	Sol	Freq	Katritzky	JCS	-	(1960)	294[illegible]
C_9H_6ClN	7-Chloroquinoline	1300-1700	Sol	Freq	Katritzky	JCS	-	(1960)	2942
C_9H_6ClN	8-Chloroquinoline	1300-1700	Sol	Freq	Katritzky	JCS	-	(1960)	294[illegible]
C_9H_6ClNO	Monochloroquinoline-N-oxide	700-3000	-	Spec	Shindo	CPBP	8	(1960)	84[illegible]
C_9H_6ClNO	p-Chlorobenzoylaceto-nitrile	-	S,Sol	Freq	Chase	JCS	-	(1953)	[illegible]
C_9H_6ClNO	5-Chloro-8-hydroxy-quinoline	3300-3400	Sol	Freq, H bond	Badger	JCS	-	(1958)	3437
C_9H_6ClNO	7-Chloro-8-hydroxy-quinoline	3300-3400	Sol	Freq, H bond	Badger	JCS	-	(1958)	3437
$C_9H_6ClNO_3$	3-p-Chlorophenyl-oxazolid-2,4-dione	650-4000	Sol	Spec	Pianka	JCS	-	(1960)	[illegible]

$C_9H_6ClNO_3$	6-Nitro-4-chloro-2H-benzopyran	-	S	Freq	Hurd	JACS	76	(1954)	5065
$C_9H_6ClN_3O_2$	5-Chloro-4-Carboxy-1-phenyl-1,2,3-triazole	900-1310	S	Assign, I	Lieber	CJC	36	(1958)	1441
$C_9H_6Cl_2O$	2,2-Dichloroindanone	-	Sol	Anal	Brutcher	CIL	-	(1957)	1295
$C_9H_6Cl_2O$	2,3-Dichloroindanone	-	-	Spec	Bergmann	BSCF	-	(1959)	634
$C_9H_6Cl_6O$	1,7,8,9,10,10-Hexachloro-4-oxatricyclo$[5.2.1.0^{2,6}]$ 8-decene	-	-	Freq	Brace	JACS	77	(1955)	4157
C_9H_6FNO	5-Fluoro-8-hydroxy-quinoline	3300-3400	Sol	Freq, H bond	Badger	JCS	-	(1958)	3437
C_9H_6INO	Iodoquinoline-N-oxide	700-3000	-	Spec	Shindo	CPBT	8	(1960)	845
C_9H_6INO	5-Iodo-8-hydroxy-quinoline	3300-3400	Sol	Freq, H bond	Badger	JCS	-	(1958)	3437
$C_9H_6INO_4S$	7-Iodo-8-hydroxy-quinoline-5-sulfonic acid	-	S	Nature of bonding	Norita	SK	32B	(1959)	83
$C_9H_6N_2O$	8-Amino-5,6-quino-linequinone	2.5-15 μ	S	Spec	Drake	JACS	73	(1951)	544
$C_9H_6N_2O_2$	3-Nitroquinoline	1300-1700	Sol	Freq	Katritzky	JCS	-	(1960)	2942
$C_9H_6N_2O_2$	4-Nitroquinoline	1300-1700	Sol	Freq	Katritzky	JCS	-	(1960)	2942
$C_9H_6N_2O_2$	5-Nitroquinoline	1300-1700	Sol	Freq	Katritzky	JCS	-	(1960)	2942
$C_9H_6N_2O_2$	6-Nitroquinoline	6.17-14 μ	S	I	Laville	JCS	-	(1954)	400
		1300-1700	Sol	Freq	Katritzky	JCS	-	(1960)	2942

$C_9H_6N_2O_2$	7-Nitroquinoline	6.17-14 μ	S	I	Laville	JCS	-	(1954)	400
		1300-1700	Sol	Freq	Katritzky	JCS	-	(1960)	2942
$C_9H_6N_2O_2$	8-Nitroquinoline	1300-1700	Sol	Freq	Katritzky	JCS	-	(1960)	2942
$C_9H_6N_2O_2$	Toluene diisocyanate	-	Sol	Freq, I	Davison	JCS	-	(1953)	3712
		4.5-13.5 μ	Sol	Quant, Analysis	Lord	AC	29	(1957)	497
$C_9H_6N_2O_3$	Nitroquinoline-N-oxide	700-3000	-	Spec	Sindo	CPBT	8	(1960)	845
$C_9H_6N_2O_3$	5-Nitro-8-hydroxyquinoline	3300-3400	Sol	Freq, H bond	Badger	JCS	-	(1958)	3437
$C_9H_6N_2O_5$	2-p-Nitrophenyl-oxazolid-2,4-dione	650-4000	Sol	Spec	Pianka	JCS	-	(1960)	983
$C_9H_6N_3O_3S$	2-Thio-3-O-nitrophenyl-hydantoin	600-400	S	Spec, Ident	Epp	AC	29	(1957)	1283
$C_9H_6N_4O_8$	2,4-Dinitrophenylhydrazone of mesooxalic acid	5-6 μ	S	Spec	Hayashi	N	178	(1956)	40
C_9H_6O	Indenone	-	Sol	Analysis	Borutcher	CIL	-	(1957)	1295
C_9H_6O	Indone	-	-	Freq	Marvel	JACS	76	(1954)	5435
$C_9H_6O_2$	Coumarin	2-15 μ	-	Freq, Struct	Rasmussen	JACS	71	(1949)	1073
		1550-1850	Sol	Freq	Jones	CJC	37	(1959)	2007
$C_9H_6O_2$	3-Methylenephthalide	-	S	Freq, Taut	Grove	JCS	-	(1951)	877
$C_9H_6O_2$	Methyl 2,4,6-octatriyonoate	-	Sol	Freq, I	Allan	JCS	-	(1955)	1874
$C_9H_6O_2$	2,4,6-Nonatriyonic acid	-	Sol	Freq, I	Allan	JCS	-	(1955)	1874

$C_9H_6O_2$	Phenylpropiolic acid	-	Sol	Freq	Goulden	SA	6	(1954)	129
$C_9H_6O_3$	Coumarilic acid	650-1000	-	Freq	O'Sullivan	SA	16	(1960)	762
		600-1700	S	Freq	O'Sullivan	JCS	-	(1960)	3278
$C_9H_6O_3$	Homophthalic acid anhydride	6 μ	S	Freq	Crow	JCS	-	(1952)	3705
$C_9H_6O_3$	4-Hydroxycoumarin	2-15 μ	S,Sol	Spec, Struct	Farmer	SA	15	(1959)	870
$C_9H_6O_3 \cdot H_2O$	4-Hydroxycoumarin hydrate	2-15 μ	S,Sol	Spec, Struct	Farmer	SA	15	(1959)	870
$C_9H_6O_3$	Methyl 8-hydroxy-2,4,6-octatriynoate	-	Sol	Freq, I	Allan	JCS	-	(1955)	1874
$C_9H_6O_4$	4,6-Dihydroxycoumarin	2-15 μ	S,Sol	Spec, Struct	Farmer	SA	15	(1959)	870
$C_9H_6O_4 \cdot H_2O$	4,6-Dihydroxycoumarin hydrate	2-15 μ	S,Sol	Spec, Struct	Farmer	SA	15	(1959)	870
$C_9H_6O_4$	Methyl trans-2-octen-4,6-diyn-8-oate-1-oic acid	-	Sol	Freq, I	Allan	JCS	-	(1955)	1874
$C_9H_6O_5$	Phthalonic acid	-	S	Freq, Taut	Grove	JCS	-	(1951)	877
$C_9H_6O_6$	Hemimellitic acid	2-15 μ	S	Spec, Freq, Assign	Gonzalez	SA	12	(1958)	17
$C_9H_6O_6$	Trimellitic acid	2-15 μ	S	Spec, Freq, Assign	Gonzalez	SA	12	(1958)	17
$C_9H_6O_6$	Trimesic acid	2-15 μ	S	Spec, Freq, Assign	Gonzalez	SA	12	(1958)	17
C_9H_7Br	1-Bromo-3-phenyl-2-propyne	2-16 μ	L	Spec	Wotiz	JACS	72	(1950)	5055
$C_9H_7BrO_2$	α-Bromoallocinamic acid	-	Sol	Freq	Goulden	SA	6	(1954)	129
$C_9H_7BrO_3$	ω-Bromomethylphthalic acid carboxylic acid			Freq, Taut					

$C_9H_7BrO_3$	ω-Bromoacetophenone-O-carboxylic acid	-	S	Freq, Taut	Grove	JCS	-	(1951)	877
$C_9H_7BrO_3$	p-Bromophenacyl formate	- -	- -	Ident, Freq Ident	Grove Hochstein	JCS JACS	- 77	(1950) (1955)	3350 3553
$C_9H_7BrO_4$	4-Bromo-3-methoxy-5-oxocycloheptatriene-carboxylic acid	673-1859	S	I	Johns	JCS	-	(1954)	198
$C_9H_7ClN_4$	2-Phenyl-4-amino-6-chloro-s-triazine	2-15μ	S	Assign	Reimschuessel	JACS	82	(1960)	3756
$C_9H_7ClO_2$	4-Chloro-7-hydroxy-indanone	-	Sol	H bond	Farmer	JCS	-	(1956)	3600
$C_9H_7ClO_2S_2$	m-Chlorophenylcarboxy-methyl dithioacetate	400-4000	S	Spec, Freq	Bak	ACS	12	(1958)	1451
$C_9H_7ClO_2S_2$	p-Chlorophenylcarboxy-methyl dithioacetate	400-4000	S	Spec, Freq	Bak	ACS	12	(1958)	1451
$C_9H_7ClO_3S$	3-Chloro-4-thiochromanone-1-dioxide	-	S	Freq	Hurd	JACS	76	(1954)	5065
$C_9H_7Cl_2NO$	3,3-Dichloro-1-methyl-oxindole	1290-4000	Sol	Struct, H bond	Kellie	JCS	-	(1956)	3809
$C_9H_7Cl_3OS$	Benzylthio trichloro-acetate	2.5-16μ	Sol	Struct, Freq	Nyquist	SA	15	(1959)	514
$C_9H_7F_3N_2O_3$	2-Nitro-3-trifluoro-methylacetanilide	700-1800 -	L,S -	Freq Freq	Randle Randle	JCS JCS	- -	(1952) (1955)	4153 1311
$C_9H_7F_3N_2O_3$	4-Nitro-2-trifluoro-methylacetanilide	700-1800 -	L,S -	Freq Freq	Randle Randle	JCS JCS	- -	(1952) (1955)	4153 1311

$C_9H_7F_3N_2O_3$	4-Nitro-3-trifluoro-methylacetanilide	700-1800	L,S	Freq	Randle	JCS	-	(1952)	4153
		-	-	Freq	Randle	JCS	-	(1955)	1311
$C_9H_7F_3O$	m-Methyl-ω,ω,ω-trifluoroacetophenone	3-15μ	L	Spec	Park	JACS	73	(1951)	709
$C_9H_7F_3O$	Trifluoromethyl benzyl ketone	-	S	Freq	Nes	JACS	72	(1950)	5409
		650-5000	Sol,L	Freq	Griffin	SA	16	(1960)	1464
$C_9H_7F_3OS$	Benzylthio trifluoro-acetate	2.5-16μ	Sol	Struct, Freq	Nyquist	SA	15	(1959)	514
$C_9H_7F_3O_2$	Trifluoromethylbenzoyl-carbinol	-	S,Sol	Freq	Nes	JACS	72	(1950)	5409
$C_9H_7F_3O_2$	1,1,1-Trifluoro-3-phenyl-propene-2,3-diol	-	S,Sol	Freq	Nes	JACS	72	(1950)	5409
C_9H_7N	1-Cyano-2-phenyl-trans-ethylene	-	Sol	Freq, Spec	Potts	SA	15	(1959)	679
C_9H_7N	Isoquinoline	2.6-3.8μ	Sol	Spec	Fox	JCS	-	(1939)	318
		2-14μ	L	Spec	Freiser	JACS	71	(1949)	514
		3-4μ	L,Sol	Stretch freq	Tallent	AC	28	(1956)	953
		700-3000	-	Spec	Shindo	CPBT	8	(1960)	845
C_9H_7N	Quinoline	-	-	Freq	Bonino	TFS	25	(1929)	876
		2.6-3.8μ	Sol	Spec	Fox	JCS	-	(1939)	318
		-	-	Solvent effect	Gordy	JCP	7	(1939)	93
		750-1950	-	Spec	Barnes	IEC	15	(1943)	659
		-	-	Ident	Entel	JACS	77	(1955)	611
		3-4μ	L,Sol	Freq	Tallant	AC	28	(1956)	953
		700-3000	-	Spec	Shindo	CPBT	8	(1960)	845
C_9H_7NO	Benzoylacetonitrile	-	S	Freq	Chase	JCS	-	(1953)	3518
C_9H_7NO	p-Cyanoacetophenone	1697	Sol	Freq, I	Tanaka	JCP	24	(1956)	311

C_9H_7NO	ω-Cyanoacetophenone	-	Sol	I	Jones	CJC	36	(1958)	1020
C_9H_7NO	α-Formylphenylacetonitrile	-	S	Freq	Chase	JCS	-	(1953)	3518
C_9H_7NO	1-Hydroxyisoquinoline	-	S,Sol	Freq, Taut	Mason	JCS	-	(1957)	4874
C_9H_7NO	4-Hydroxyisoquinoline	3650-1400	S,Sol	Freq, Taut, Assign	Mason	JCS	-	(1957)	4874
C_9H_7NO	5-Hydroxyisoquinoline	-	S,Sol	Taut, Freq, Assign	Mason	JCS	-	(1957)	4874
C_9H_7NO	6-Hydroxyisoquinoline	-	S,Sol	Taut, Freq, Assign	Mason	JCS	-	(1957)	4874
C_9H_7NO	7-Hydroxyisoquinoline	-	S,Sol	Taut, Freq, Assign	Mason	JCS	-	(1957)	4874
C_9H_7NO	8-Hydroxyisoquinoline	-	S,Sol	Taut, Freq, Assign	Mason	JCS	-	(1957)	4874
C_9H_7NO	2-Hydroxyquinoline	-	S,Sol	Taut, Freq, Assign	Mason	JCS	-	(1957)	4874
C_9H_7NO	3-Hydroxyquinoline	-	S,Sol	Taut, Freq, Assign	Mason	JCS	-	(1957)	4874
C_9H_7NO	4-Hydroxyquinoline	-	S,Sol	Taut, Freq, Assign	Mason	JCS	-	(1957)	4874
C_9H_7NO	5-Hydroxyquinoline	-	S,Sol	Taut, Freq, Assign	Mason	JCS	-	(1957)	4874
C_9H_7NO	6-Hydroxyquinoline	-	S,Sol	Taut, Freq, Assign	Mason	JCS	-	(1957)	4874
C_9H_7NO	7-Hydroxyquinoline	-	S,Sol	Taut, Freq, Assign	Mason	JCS	-	(1957)	4874
C_9H_7NO	8-Hydroxyquinoline	6400-7000	Sol	Spec, Analysis	Wulf	JACS	57	(1935)	1464
		2-11μ	Sol	Spec	Phillips	JACS	71	(1949)	3984
		-	S	Spec	Charles	AC	25	(1953)	530
		2-15μ	S	Spec	Stone	JACS	76	(1954)	4997
		8-15μ	S	Assign, Spec	Charles	SA	8	(1956)	1
		-	S,Sol	Taut, Freq, Assign	Mason	JCS	-	(1957)	4874
		3300-3400	Sol	Iso, H bond, Freq, I	Badger	JCS	-	(1959)	3437
		3μ	Sol	Freq, H bond	Flett	SA	10	(1958)	21
		3200-3800	Sol	Freq, H bond	Bellamy	TFS	55	(1959)	220
		1300-1700	Sol	Freq	Katritzky	JCS	-	(1960)	2942

C_9H_7NO	Indole-3-aldehyde	700-4000	S	Spec, Freq, H bond	Tanner	SA	9	(1957)	282
		900-4000	S	Struct	O'Sullivan	JCS	-	(1959)	876
C_9H_7NO	Isoquinoline-N-oxide	700-3000	-	Spec	Shindo	CPBT	8	(1960)	845
C_9H_7NO	Quinoline-N-oxide	1450-3700	S	Spec, Struct	Mann	JCS	-	(1949)	2816
		800-1600	-	Spec, Ident	Clemo	JCS	-	(1950)	1481
C_9H_7NO	2-Quinolone	-	S,Sol	Spec	Gibson	JCS	-	(1955)	4340
		1450-4000	S,Sol	Spec, Freq	Price	AJC	12	(1959)	589
C_9H_7NO	4-Quinolizone	-	-	Band study	Bockelheide	JACS	73	(1951)	3681
C_9H_7NOS	p-Acetylphenyl isothiocyanate	-	Sol	Freq	Rao	CS	27	(1958)	474
		800-4000	S	Spec	Ham	SA	16	(1960)	279
$C_9H_7NO_2$	p-Cyanophenyl acetate	-	Sol	Freq	Freeman	JACS	82	(1960)	2454
$C_9H_7NO_2$	p-Cyanomethyl benzoate	650-900	L,Sol	CH out of plane study	Yoshida	CPBT	8	(1960)	389
$C_9H_7NO_2$	2,3-Dihydroxyquinoline	5-7μ	S	Spec	Grundon	JACS	74	(1952)	2637
$C_9H_7NO_2$	2,4-Dihydroxyquinoline	1400-3650	S	Spec, Assign, Taut	Mason	JCS	-	(1957)	4874
$C_9H_7NO_2$	4,8-Dihydroxyquinoline	1400-3650	S	Spec, Assign, Taut	Mason	JCS	-	(1957)	4874
$C_9H_7NO_2$	Homophthalimide	-	S,Sol	Freq, Taut	Mason	JCS	-	(1957)	4874
		600-3500	S,Sol	Assign, Struct	Bluhm	SA	13	(1958)	93
$C_9H_7NO_2$	Homopiperonyl cyanide	725-1500	S	Freq	Briggs	AC	29	(1957)	904
$C_9H_7NO_2$	4-Hydroxy-2-quinolone	1450-4000	S	Spec, Freq	Price	AJC	12	(1959)	589
$C_9H_7NO_2$	8-Hydroxyquinoline-N-oxide	800-1600	-	Spec	Clemo	JCS	-	(1950)	1481
$C_9H_7NO_2$	1-Methylisatin	1300-3500	Sol	H bond, Struct, Freq	O'Sullivan	JCS	-	(1957)	2202
$C_9H_7NO_2$	4-Methylisatin	1300-3500	Sol	H bond, Struct, Freq	O'Sullivan	JCS	-	(1957)	[illegible]

$C_9H_7NO_2$	4-Methylisatin	1300-3500	Sol	H bond, Struct, Freq	O'Sullivan	JCS	-	(1957)	2202
$C_9H_7NO_2$	5-Methylisatin	1300-3500	Sol	H bond, Struct, Freq	O'Sullivan	JCS	-	(1957)	2202
$C_9H_7NO_2$	6-Methylisatin	1300-3500	Sol	H bond, Struct, Freq	O'Sullivan	JCS	-	(1957)	2202
$C_9H_7NO_2$	7-Methylisatin	1300-3500	Sol	H bond, Struct, Freq	O'Sullivan	JCS	-	(1957)	2202
$C_9H_7NO_2$	2-Methyl-3,1,4-benzoxazone	680-3600	S	Spec, Struct	Zentmjer	JOC	14	(1949)	967
$C_9H_7NO_2$	2-Methyl-4-oxocyclo-heptaoxazole	682-1626	S	Table	Johnson	JCS	-	(1955)	1841
$C_9H_7NO_2$	N-Methylphthalimide	2.5-14 μ	S	Spec	Boekelheide	JACS	73	(1951)	2286
		-	-	Ident	Boekelheide	JACS	75	(1953)	2546
		-	-	Ident	Boekelheide	JACS	73	(1953)	2286
		-	-	Ident	Weinstock	JACS	73	(1953)	2546
		-	-	Ident	Godfrey	JACS	77	(1955)	3342
		1290-4000	Sol	Struct, H bond, Spec	Kellie	JCS	-	(1956)	3809
$C_9H_7NO_2$	3-Phenylisooxazol-5-one	1000-1850	S	Spec. Freq	Angyal	JCS	-	(1953)	2181
$C_9H_7NO_2S$	p-Methoxybenzoyl isothiocyanate	2000-2300	Sol	Freq	Caldow	SA	13	(1958)	212
$C_9H_7NO_3$	5-Methoxyisatin	1300-3500	Sol	Struct, H bond, Freq	O'Sullivan	JCS	-	(1957)	2202
$C_9H_7NO_3$	6-Methoxyisatin	1300-3500	Sol	Struct, H bond, Freq	O'Sullivan	JCS	-	(1957)	2202
$C_9H_7NO_3$	3-Phenyl-oxazolid-2,4-dione	650-4000	Sol	Spec	Pianka	JCS	-	(1960)	983
$C_9H_7NO_4$	3,4-Methylenedioxy-β-nitrostyrene	700-1500	S,Sol	Freq	Briggs	AC	29	(1957)	904
$C_9H_7NO_4$	6-Nitro-4-chromanone	-	Sol	Freq	Hurd	JACS	76	(1954)	5065

$C_9H_7NO_4$	m-Nitrocinnamic acid	-	Sol	Freq	Goulden	SA	6	(1954)	129
$C_9H_7NO_4$	p-Nitrocinnamic acid	1300-1600	S,Sol	Struct	Kross	JACS	78	(1956)	4225
$C_9H_7NO_4S$	p-Cyanophenyl carboxy-methyl sulfone	-	S	Freq	Momose	CPBT	6	(1958)	412
$C_9H_7NO_4S_2$	m-Nitrophenyl carboxy-methyl dithioacetate	400-4000	S	Spec, Freq	Bak	ACS	12	(1958)	1451
C_9H_7NS	1-Mercaptoisoquinoline	700-3800	S,Sol	Freq, Assign	Spinner	JCS	-	(1960)	1237
C_9H_7NS	2-Mercaptoquinoline	700-3800	S,Sol	Freq, Assign	Spinner	JCS	-	(1960)	1237
C_9H_7NS	4-Mercaptoquinoline	700-3800	S,Sol	Freq, Assign	Spinner	JCS	-	(1960)	1237
C_9H_7NS	8-Mercaptoquinoline	700-3800	S,Sol	Freq, Assign	Spinner	JCS	-	(1960)	1237
$C_9H_7N_3O_2$	1-p-Nitrophenylpyrazole	-	-	Ident	Ainsworth	JACS	76	(1954)	3172
$C_9H_7N_3O_3$	1-[5-(2,4,6-Trioxohexa-hydropyrimidyl)] pyridinium betaine	-	-	Ident	Taylor	JOC	20	(1955)	264
$C_9H_7N_3O_4$	2-(2,4-Dinitrophenyl)-3-methyl-2-azurine	2-12 μ	Sol	Spec, Freq, Struct	Cram	JACS	75	(1953)	33
C_9H_8	Indene	1-14 μ	L	Spec	Stair	JRNB	15	(1935)	295
		3.2-3.5 μ	Sol	HC band study	Wall	JACS	62	(1940)	2225
		750-1950	-	Freq, Spec	Barnes	IEC	15	(1943)	659
		2-16 μ	L	Spec	Entel	AC	25	(1953)	1303
		-	Sol	Spec	Izrailevich	DANS	111	(1956)	617
		700-4000	L	Spec	Coates	SA	15	(1959)	820
		800-1725	Sol	Freq	O'Sullivan	JCS	-	(1960)	3278
C_9H_8	Methylphenylacetylene	500-2300	-	Freq	Murray	JCP	8	(1940)	133
$C_9H_8Cl_2$	2-(2',3'-Dichlorophenyl) -propene-1	-	Sol	Spec, Freq	Potts	SA	15	(1959)	679

$C_9H_8Cl_2OS$	Benzylthio dichloro-acetate	2.5-16μ	Sol	Struct, Freq	Nyquist	SA	15	(1959)	514
$C_9H_8Cl_2O_2$	2-Chloro-1-phenylethyl chloroformate	-	L	Freq, Struct	Hales	JCS	-	(1957)	618
$C_9H_8F_3NO$	N-Benzyltrifluoro-acetamide	-	L,S	Freq	Robson	JACS	77	(1955)	498
$C_9H_8F_3NO$	m-Trifluoromethyl-acetanilide	-	-	Freq	Randle	JCS	-	(1955)	1311
$C_9H_8F_3NO$	o-Trifluoromethyl-acetanilide	-	-	Freq	Randle	JCS	-	(1955)	1311
$C_9H_8F_3NO$	p-Trifluoromethyl-acetanilide	-	-	Freq	Randle	JCS	-	(1955)	1311
$C_9H_8INO_3$	2-Iodoadrenochrome	800-3500	S	Struct	Heacock	CJC	36	(1958)	1550
$C_9H_8N_2$	2-Aminoquinoline	3μ	Sol	Spec, Freq, Struct	Angyal	JCS	-	(1952)	2911
		-	Sol	Freq, FC, H bond	Short	JCS	-	(1952)	4584
		1300-1700	Sol	Freq	Katritzky	JCS	-	(1960)	2942
		-	-	Spec	Sheinker	DANS	131	(1960)	1366
$C_9H_8N_2$	3-Aminoquinoline	-	Sol	Freq, FC, H bond	Short	JCS	-	(1952)	4584
		1300-1700	Sol	Freq	Katritzky	JCS	-	(1960)	2942
$C_9H_8N_2$	4-Aminoquinoline	3μ	Sol	Spec, Freq, Struct	Angyal	JCS	-	(1952)	2911
		-	Sol	Freq, FC, H bond	Short	JCS	-	(1952)	4584
		1300-1700	Sol	Freq	Katritzky	JCS	-	(1960)	2942
$C_9H_8N_2$	5-Aminoquinoline	3300-3800	Sol	FC, Freq	Short	JCS	-	(1956)	4191
		1300-1700	Sol	Freq	Katritzky	JCS	-	(1960)	2942
$C_9H_8N_2$	6-Aminoquinoline	-	Sol	Freq, FC, H bond	Short	JCS	-	(1952)	4584
		1300-1700	Sol	Freq	Katritzky	JCS	-	(1960)	2942

$C_9H_8N_2$	7-Aminoquinoline	-	Sol	Freq, FC, H bond	Short	JCS	-	(1952)	4584
$C_9H_8N_2$	8-Aminoquinoline	-	Sol	Freq, FC, H bond	Short	JCS	-	(1952)	4584
		1300-1700	Sol	Freq	Katritzky	JCS	-	(1960)	2942
$C_9H_8N_2$	3-Aminoisoquinoline	3300-3500	Sol	Freq, FC	Short	JCS	-	(1956)	4191
$C_9H_8N_2$	4-Aminoisoquinoline	3300-3500	Sol	Freq, FC	Short	JCS	-	(1956)	4191
$C_9H_8N_2$	5-Aminoisoquinoline	3300-3500	Sol	Freq, FC	Short	JCS	-	(1956)	4191
$C_9H_8N_2$	6-Aminoisoquinoline	3300-3500	Sol	Freq, FC	Short	JCS	-	(1956)	4191
$C_9H_8N_2$	7-Aminoisoquinoline	3300-3500	Sol	Freq, FC	Short	JCS	-	(1956)	4191
$C_9H_8N_2$	8-Aminoisoquinoline	3300-3500	Sol	Freq, FC	Short	JCS	-	(1956)	4191
$C_9H_8N_2$	2-Methylquinazoline	700-3500	S	Spec, Assign	Culbertson	JACS	74	(1952)	4834
$C_9H_8N_2$	4-Methylquinazoline	700-3500	L	Spec, Assign	Culbertson	JACS	74	(1952)	4834
$C_9H_8N_2O$	p-Cyanoacetanilide	-	Sol	Freq	Freeman	JACS	82	(1960)	2454
		-	S,Sol	H bond, Struct	Mirone	AC	48	(1958)	881
$C_9H_8N_2O$	2,2'-Dipyrryl ketone	-	-	Struct, H bond	Bonino	AAN	21	(1959)	242
		-	Sol	I, Freq, Struct	Mirone	AC	49	(1959)	59
$C_9H_8N_2O$	Indole-3-aldoxime	900-4000	S,Sol	Struct	O'Sullivan	JCS	-	(1959)	876
$C_9H_8N_2O$	2-Methoxyquinazoline	700-3500	S	Spec, Assign	Culbertson	JACS	74	(1952)	4834
$C_9H_8N_2O$	4-Methoxyquinazoline	700-3500	S	Spec, Assign	Culbertson	JACS	74	(1952)	4834
$C_9H_8N_2O$	2-Methyl-4-quinazalone	700-3500	S	Spec, Assign	Culbertson	JACS	74	(1952)	4834
$C_9H_8N_2O$	3-Methyl-4-quinazalone	700-3500	S	Spec, Assign	Culbertson	JACS	74	(1952)	4834
$C_9H_8N_2O$	1-Phenyl-3-pyrazolidone	-	Sol	H bond, Freq	Kurosaki	NKZ	79	(1958)	1362

$C_9H_8N_2OS$	p-Acetamidophenyl thiocyanate	2000-2300	Sol	Freq	Caldow	SA	13	(1958)	212
$C_9H_8N_2OS$	3-Phenyl-2-thiohydantoin	15-25μ	S	Spec, Ident	Ramachandran	AC	27	(1955)	1734
$C_9H_8N_2O_2$	N-Benzylsydnone	2-15μ	S	Spec	Fugger	JACS	77	(1955)	1843
$C_9H_8N_2O_2$	1-Methylisatin-β-oxime	650-1000	-	Freq	O'Sullivan	SA	16	(1960)	762
$C_9H_8N_2O_2$	5-Methylisatin-β-oxime	650-1000	-	Freq	O'Sullivan	SA	16	(1960)	762
$C_9H_8N_2O_2$	1-Methyl-2,4-quinazolinedione	700-3500	S	Spec, Assign	Culbertson	JACS	74	(1952)	4834
$C_9H_8N_2O_2$	3-Methyl-2,4-quinazolinedione	700-3500 2-16μ	S S	Spec, Assign Spec, Freq	Culbertson Staiger	JACS JOC	74 18	(1952) (1953)	4834 1427
$C_9H_8N_2O_3$	6-Methoxyisatin-β-oxime	650-1000	-	Freq	O'Sullivan	SA	16	(1960)	762
$C_9H_8N_2O_4$	N-(β-Aminoethyl)-chelidamic acid lactam	2-15μ	S	Spec, Freq	Schwab	JACS	76	(1954)	1189
$C_9H_8N_2S$	2-Methylmercaptoquinoxaline	700-3800	S,Sol	Freq, Assign	Spinner	JCS	-	(1960)	1237
$C_9H_8N_2S$	2-Methyl-4-mercaptoquinazoline	700-3500	S,Sol	Spec, Assign	Culbertson	JACS	74	(1952)	4834
$C_9H_8N_2S$	N-Methyl-2-thioquinoxalone	700-3800	S,Sol	Freq, Spec	Spinner	JCS	-	(1960)	1237
$C_9H_8N_2S_2$	2-Phenyl-5-methyl mercapto-1,3,4-thiadiazole	-	-	Ident	Young	JACS	77	(1955)	400

$C_9H_8N_4O$	Benzoyldicyandiamide	-	-	C=N band study	Adams	JOC	17	(1952)	1162
$C_9H_8N_4O_4$	Acrolein-2,4-dinitro-	6-15 μ	S	Spec	Ross	AC	25	(1953)	1288
	phenylhydrazone	2-15 μ	S	Spec, Ident	Jones	AC	28	(1956)	191
$C_9H_8N_4O_6$	Pyruvic acid 2,4-dintro-	1400-1800	-	Ident	Drew	JACS	74	(1952)	1852
	phenylhydrazone	1300-3400	L,S	Spec, Struct	Isherwood	N	175	(1955)	419
		-	-	Ident	Flynn	JACS	75	(1953)	5867
C_9H_8O	Acrylophenone	-	-	Ident	Fuson	JACS	77	(1955)	994
C_9H_8O	1,2-Benzocyclopent-1-en	-	Sol	Freq	Schubert	JACS	77	(1955)	4172
	-3-one	-	Sol	Freq	Farmer	JCS	-	(1956)	3600
		800-1725	Sol	Freq	O'Sullivan	JCS	-	(1960)	3278
C_9H_8O	Cinnamaldehyde	600-4000	L	Spec, Freq	Herzert	JOC	25	(1960)	405
C_9H_8O	trans-Cinnamaldehyde	0.7-2.5 μ	L	C=O study	Ellis	JACS	51	(1929)	1384
		0.8-2.5 μ	L	Spec	Sappenfield	PR	33	(1929)	37
		-	Sol	Freq, Ext coeffitient	Pinchas	AC	27	(1955)	2
		2710-2730	Sol	Freq, H bond	Pinchas	AC	29	(1957)	334
		-	Sol	Freq, Spec	Potts	SA	15	(1959)	679
C_9H_8O	Methylphenoxyacetylene	2-16 μ	L	Spec	Hatch	JACS	77	(1955)	1798
C_9H_8O	Phenoxypropadiene	2-16 μ	L	Spec	Hatch	JACS	77	(1955)	1798
C_9H_8O	Phenyl propargyl ether	300-3800	S,Sol	Freq	Nyquist	SA	16	(1960)	419
C_9H_8O	3-Phenyl-2-propynol-1	2-16 μ	L	Spec	Wotiz	JACS	72	(1950)	5055
C_9H_8OS	1-Thiochroman-4-one	-	-	Struct	Kiang	JCS	-	(1951)	1909
C_9H_8OS	2-Thioisochroman-4-one	-	-	Struct	Kiang	JCS	-	(1951)	1909
$C_9H_8O_2$	Atropic acid	-	Sol	Freq	Goulden	SA	6	(1954)	129
$C_9H_8O_2$	Cinnamic acid	2-15 μ	S	Spec	Ross	AC	25	(1953)	1288

$C_9H_8O_2$	Cinnamic acid	3-15 μ	S	Spec	Farmer	SA	8	(1957)	374
		-	Sol	I, Freq	Wenograd	JACS	79	(1957)	5844
		600-4000	-	Spec, Freq	Herzert	JOC	25	(1960)	405
$C_9H_8O_2$	cis-Cinnamic acid	-	Sol	Analysis	Grovenstien	JACS	77	(1955)	3795
$C_9H_8O_2$	trans-Cinnamic acid	700-3100	S	Spec	Mann	PRS A	192	(1948)	489
		700-4000	S,L, Sol	Freq, Ext Coeffitient	Flett	JCS	-	(1951)	962
		-	Sol	Freq	Goulden	SA	6	(1954)	129
		-	S	Freq	Crombie	JCS	77	(1955)	3795
		-	Sol	Analysis	Grovestein	JACS	77	(1955)	3795
		-	Sol	Freq, Spec	Potts	SA	15	(1959)	679
$C_9H_8O_2$	Cyclooctatetraene-carboxylic acid	2-16 μ	Sol	Spec	Cope	JACS	74	(1952)	173
$C_9H_8O_2$	5-α-Furyl-2,4-pentadienal	-	-	Quant Mech.	Mulliken	JCP	7	(1939)	364
		1400-2000	Sol	Spec	Blout	JACS	70	(1948)	194
$C_9H_8O_2$	7-Hydroxyindanone	-	Sol	H bond	Farmer	JCS	-	(1956)	3600
$C_9H_8O_2$	Vinyl benzoate	-	Sol	Freq	Davison	JCS	-	(1953)	2607
		-	Sol	Freq, Spec	Potts	SA	15	(1959)	679
$C_9H_8O_2S_2$	Phenyl carboxymethyl-dithioacetate	400-4000	S	Spec, Assign, Freq	Bak	ACS	12	(1958)	1451
$C_9H_8O_3$	Acetophenone-O-carboxylic acid	-	S	Freq, Taut	Grove	JCS	-	(1951)	877
$C_9H_8O_3$	p-Acetoxybenzaldehyde	-	Sol	Freq	Freeman	JACS	82	(1960)	2454
$C_9H_8O_3$	Acetylsalicyladehyde	2-12 μ	Sol	Spec, Struct	O'Connor	JACS	76	(1954)	2368
$C_9H_8O_3$	Benzoylacetic acid	-	Sol	H bond	Oki	BCSJ	33	(1960)	119

$C_9H_8O_3$	4-Carboxyphthalan	11μ	S,Sol	Spec, Assign	Allison	JCS	-	(1958)	4311
$C_9H_8O_3$	O-Coumaric acid	700-4000	S,L	Freq	Flett	JCS	-	(1951)	962
$C_9H_8O_3$	4,7-Dihydroxyindanone	-	Sol	H bond	Farmer	JCS	-	(1956)	3600
$C_9H_8O_3$	cis-Endomethylene tetra-hydrophthalic anhydride	1750-1850	Sol	Freq	Douben	JOC	24	(1959)	1595
$C_9H_8O_3$	O-Formylbenzoic acid	-	S	Freq, Taut	Grove	JCS	-	(1951)	877
	pseudo methyl ester	-	S	Freq	Grove	JCS	-	(1952)	3345
$C_9H_8O_3$	p-Hydroxycinnamic (trans) acid	-	Sol	Freq	Goulden	SA	6	(1954)	129
$C_9H_8O_3$	4-Hydroxy-3-methyl-phthalide	2-16μ	Sol	Spec not shown	Hoshstein	JACS	74	(1952)	3905
$C_9H_8O_3$	5-Hydroxy-6-methyl-phthalide	-	Sol	Freq	Duncanson	JCS	-	(1953)	3637
$C_9H_8O_3$	6-Hydroxy-5-methyl-phthalide	-	S,Sol	Freq	Duncanson	JCS	-	(1953)	3637
$C_9H_8O_3$	7-Hydroxy-3-methyl-phthalide	2-16μ	Sol	Spec	Hochstein	JACS	74	(1952)	3905
$C_9H_8O_3 \cdot H_2O$	7-Hydroxy-3-methyl-phthalide hydroxide	-	Sol	Freq, Struct	Hoshstein	JACS	73	(1951)	5008
$C_9H_8O_3$	7-Hydroxy-6-methyl-phthalide	-	Sol	Freq	Duncanson	JCS	-	(1953)	3637
$C_9H_8O_3$	Methyl-o-hydroxy benzoate (Methyl salicylate)	800-1600	-	I, Ext coeffitient	Katritzky	JCS	-	(1959)	3670
$C_9H_8O_3$	4-Methoxyphthalide	-	S,Sol	Freq	Duncanson	JCS	-	(1953)	1331
		-	-	Ident	Blair	JCS	-	(1955)	708
$C_9H_8O_3$	7-Methoxyphthalide	-	S,Sol	Freq	Duncanson	JCS	-	(1953)	708

$C_9H_8O_3$	7-Methoxyphthalide	-	S,Sol	Freq	Duncanson	JCS	-	(1953)	1331
		-	-	Ident	Blair	JCS	-	(1955)	708
$C_9H_8O_3$	Methyl O-formylbenzoate normal	-	S	Freq, Taut	Grove	JCS	-	(1951)	877
$C_9H_8O_3$	Methyl tropone-4-carboxylate	773-1715	S	Freq	Johns	JCS	-	(1955)	309
$C_9H_8O_3$	Phenyl ethylene carbonate	-	Sol,S	Freq, Struct	Hales	JCS	-	(1957)	618
$C_9H_8O_3$	Phenylpyruvic acid	660-4000	S	Spec, Taut	Josien	BSCF	-	(1957)	1148
$C_9H_8O_3$	Tropolone acetate	2-16μ	-	Spec, Struct	Doering	JACS	74	(1952)	5688
		600-3400	S,Sol	Spec, H bond	Kuratani	BCSJ	25	(1952)	250
$C_9H_8O_3S$	1-Thiochroman-4-one sulfone	-	-	Struct	Kiang	JCS	-	(1951)	1909
		-	-	Freq	Hurd	JACS	76	(1954)	5065
$C_9H_8O_3S_2$	o-Hydroxyphenylcarboxymethyl dithioacetate	400-4000	S	Spec, Freq	Bak	ACS	12	(1958)	1451
$C_9H_8O_3S_2$	p-Hydroxyphenylcarboxymethyl dithioacetate	400-4000	S	Spec, Freq	Bak	ACS	12	(1958)	1451
$C_9H_8O_4$	O-Acetoxybenzoic acid	1400-2000	Sol	Spec	Parke	AC	23	(1951)	953
		2-16μ	S	Spec	Muller	AC	28	(1956)	37
		-	-	Assign	Fortune	AC	29	(1957)	1
		9.27μ	Sol	Quant analysis	Washburn	AC	29	(1957)	1895
$C_9H_8O_4$	Acetyl benzoyl peroxide	-	Sol	Freq	Davison	JCS	-	(1951)	2456
$C_9H_8O_4$	Bicyclo[2,2,1]heptadiene-2,3-dicarboxylic acid	-	-	Freq	Cristol	JACS	76	(1954)	5000
$C_9H_8O_4$	5,7-Dihydroxychromanone	-	Sol	H bond	Farmer	JCS	-	(1956)	3600
$C_9H_8O_4$	3,4-Dihydroxycinnamic acid	600-4000	-	Spec, Freq	Herzert	JOC	25	(1960)	405

$C_9H_8O_4$	5-Formylvanillin	600-4000	S	Spec, Freq	Herzert	JOC	25	(1960)	405
$C_9H_8O_4$	4-Hydroxy-6-Methoxy-coumaranone	- -	Sol Sol	H bond Spec	Farmer Duncanson	JCS JCS	- -	(1956) (1957)	3600 3555
$C_9H_8O_4$	6-Hydroxy-4-methoxy-coumaranone	-	Sol	Spec	Duncanson	JCS	-	(1957)	3555
$C_9H_8O_4$	5-Hydroxy-tricyclo[2,2,1,$0^{2,6}$]heptane-2,3-dicarboxylic acid-γ-lactone	-	-	Freq	Cristol	JACS	76	(1954)	5000
$C_9H_8O_4$	3-Methoxycyclo-5-oxoheptatrienecarboxylic acid	669-2353	S	I	Johns	JCS	-	(1954)	198
$C_9H_8O_4$	4-Methylphthalic acid	10-15μ	S	Spec, Analysis	Nicholson	AC	31	(1959)	519
$C_9H_8O_4$	4-Methylisophthalic acid	10-15μ	S	Spec, Analysis	Nicholson	AC	31	(1959)	519
$C_9H_8O_4$	Methylterephthalic acid	10-15μ	S	Spec	Nicholson	AC	31	(1959)	519
$C_9H_8O_4$	Nortricyclenic acid lactone	2-15μ	S	Spec, Ident	Winston	JACS	76	(1954)	3045
$C_9H_8O_4$	Tetracyclo[2,2,1,$0^{2,6}$,$0^{3,5}$]heptane-2,3-dicarboxylic acid	-	-	Freq	Cristol	JACS	76	(1954)	5000
$C_9H_8O_5$	5-Carboxylvanillin	600-4000	S	Spec, Freq	Herzert	JOC	25	(1960)	405
$C_9H_8O_5$	O-Methylisostipitatic acid	662-1825	S	I	Johns	JCS	-	(1954)	198
$C_9H_8O_5$	5-Formylvanillic acid	-	S	Spec, Freq	Herzert	JOC	25	(1960)	405
$C_9H_8O_5$	Myristicinic acid	700-3000	S,Sol	Freq	[illegible]	AC	[illegible]	(1957)	[illegible]

$C_9H_8O_5$	Myristicinic acid	700-3000	S,Sol	Freq	Briggs	AC	29 (1957)	904
$C_9H_8O_5S$	p-Formylphenyl carboxy-methyl sulfone	-	S	Freq	Momose	CPBT	6 (1958)	412
$C_9H_8O_6$	5-Carboxyvanillic acid	600-4000	S	Spec, Freq	Herzert	JOC	25 (1960)	405
C_9H_8S	Phenyl propargyl sulphide	300-3800	Sol,S	Freq	Nyquist	SA	16 (1960)	419
C_9H_9Br	3-Bromo-2-phenyl-1-propene	3.25-14.4μ	L	I	Hatch	JACS	76 (1954)	2705
C_9H_9Br	Cinnamyl bromide	5-15μ	L	Spec, Freq, Assign	Lora	JCS	- (1950)	1418
$C_9H_9BrClNO_2$	Ethyl 2-bromomethyl-6-chloronicotinate	-	-	Freq	Ramirez	JOC	19 (1954)	183
$C_9H_9BrN_2O_3$	3-Bromo-4-Methyl-5-nitroacetanilide	1500-1750	S,Sol	Spec, Assign	Richards	JCS	- (1947)	1248
C_9H_9BrO	2-Bromo-1-phenoxy-1-propene	3.31-14.56μ	L	I	Hatch	JACS	77 (1955)	1798
C_9H_9BrOS	Benzylthio monobromo-acetate	2.5-16μ	Sol	Struct, Freq	Nyquist	SA	15 (1959)	514
$C_9H_9BrO_2$	Ethyl p-bromobenzoate	1700	Sol	Freq, I	Thompson	SA	9 (1957)	208
$C_9H_9BrO_4$	6-Bromo-2,3-dicarboxy-5-hydroxy-1,4-methylene-cyclohexane-3,5-lactone	-	-	Freq	Berson	JACS	76 (1954)	4975
$C_9H_9BrO_4 \cdot H_2O$	6-Bromo-2,3-dicarboxy-5-hydroxy-1,4-methylene-cyclohexane-3,5-lactone hydroxide	-	-	Freq	Berson	JACS	76 (1954)	4975

$C_9H_9BrO_5$	endo-cis-6-Bromo-2-carbomethoxy-3-carboxy-5-hydroxy-1,4-oxocyclohexane-3,5-lactone	-	-	Freq	Berson	JACS	76	(1954)	4975
$C_9H_9BrO_5$	6-Bromo-2-carbomethoxy-trans-3-carboxy-5-hydrory-1,4-oxocyclohexane-3,5-lactone	-	-	Freq	Berson	JACS	76	(1954)	4975
C_9H_9Cl	3-Chloro-2-phenyl-1-propene	3.25-14.35 μ	L	I	Hatch	JACS	76	(1954)	2705
		-	Sol	Freq, Spec	Potts	SA	15	(1959)	679
$C_9H_9ClN_6$	N-o-Chlorophenyl-melamine	2-16 μ	S	Spec, Struct, Assign	Padgett	JACS	80	(1958)	803
C_9H_9ClO	cis-2(γ-Chloroallyl) phenol	2.7-3.0 μ	Sol	H bond	Baker	JACS	80	(1958)	5358
C_9H_9ClO	trans-2-(γ-Chloroallyl) phenol	2.7-3.0 μ	Sol	H bond	Baker	JACS	80	(1958)	5358
C_9H_9ClO	Ortho-3'-chloroallyl-phenol	2.7-2.95 μ	Sol	H bond	Baker	JACS	81	(1959)	4524
C_9H_9ClO	2-Chloro-3-phenoxypropene-1	-	Sol	Spec, Freq	Potts	SA	15	(1959)	679
C_9H_9ClO	1-Chloro-1-phenyl-2-propanone	-	-	Freq	Bodot	BSCF	-	(1960)	1086
C_9H_9ClO	p-Chloropropiophenone	1700	Sol	Freq	Thompson	SA	9	(1957)	208
C_9H_9ClOS	Benzylthio monochloroacetate	2.5-16	Sol	Struct, Freq	Nyquist	SA	15	(1959)	514
$C_9H_9ClO_2$	Ethyl p-chlorobenzoate	650-900	S,Sol	CH out of plane	Yoshida	CPBT	8	(1960)	389

$C_9H_9ClO_5$	3-Chloro-2-hydroxy-4,6-dimethoxybenzoic acid	-	-	Ident, Struct	Grove	JCS	-	(1952)	3958
$C_9H_9Cl_3N_2$	N-Benzyltrichloro-acetamidine	1000-3500	S	Assign, Struct, H bond	Grivas	CJC	37	(1959)	795
$C_9H_9Cl_3N_2$	N-m-Tolyltrichloro-acetamidine	1000-3500	S,Sol	Assign, Struct, H bond	Grivas	CJC	37	(1959)	795
$C_9H_9Cl_3N_2 \cdot HCl$	N-m-Tolyltrichloro-acetamidine hydro-chloride	1350-4000	S	Struct	Grivas	CJC	37	(1959)	1260
$C_9H_9Cl_3N_2$	N-o-Tolyltrichloro-acetamidine	1000-3500	S,Sol	Assign, Struct, H bond	Grivas	CJC	37	(1959)	795
$C_9H_9Cl_3N_2$	N-p-Totyltrichloro-acetamidine	1000-3500	S,Sol	Assign, Struct, H bond	Grivas	CJC	37	(1959)	795
$C_9H_9Cl_3O$	Trichloromethyl-p-tolylcarbinol	700-3600	Sol	Freq, H bond	Bergmann	JACS	74	(1952)	1263
$C_9H_9FO_2$	Ethyl p-fluoro benzoate	1700	Sol	Freq, I	Thompson	SA	9	(1957)	208
$C_9H_9F_3O_3S$	1,1-Di-H-perfluoroethyl p-toluenesulfonate	-	L	Freq	Tiers	JACS	75	(1953)	5978
C_9H_9N	3,4-Dihydroisoquinoline	-	-	Spec	Ban	CPBT	8	(1960)	194
C_9H_9N	2-Methylindole	2-12 μ	Sol	Spec	Witkop	JACS	73	(1951)	713
		750-3060	L	Freq	Brown	JCS	-	(1952)	3172
C_9H_9N	3-Methylindole	755-3065	L	Freq	Brown	JCS	-	(1952)	3172
		2-10 μ	-	Spec	Geissman	JACS	74	(1952)	3916
		3480	Sol	Freq	Pozefasky	AC	27	(1955)	1466
		-	Sol	Freq, I	Russell	JCS	-	(1955)	483

C_9H_9N	N-Methylindole	2900-3100	Sol	Freq	Hill	JCS	-	(1958)	760
C_9H_9N	3-Phenylpropionitrile	-	-	Freq	Kitson	AC	24	(1952)	334
C_9H_9N	1-(α-Pyridyl)-1,3-butadiene	-	-	Freq	Boekelheide	JACS	76	(1954)	1832
C_9H_9NO	Hydrocarbostyril	-	-	Ident	Schener	JACS	75	(1953)	3029
C_9H_9NO	α-Hydroxy-β-cyanoethylbenzene	-	Sol	Freq	Potts	AC	27	(1955)	1027
C_9H_9NO	3-Hydroxymethylindole	-	-	Freq	Silverstein	JACS	76	(1954)	4485
C_9H_9NO	3-Keto-1,2,3,4-tetrahydroisoquinoline	3μ	Sol	Freq	Russel	SA	8	(1956)	138
C_9H_9NO	N-Methylindoxyl	700-4000	S,Sol	Struct, H bond, Freq	Holt	JCS	-	(1958)	1219
C_9H_9NO	1-Methyloxindole	2-11μ	Sol	Spec	Wenkert	JACS	75	(1953)	5514
		1290-4000	Sol	Struct, H bond	Kellie	JCS	-	(1956)	3809
C_9H_9NO	5-Methyloxindole	1290-4000	Sol	Struct, H bond	Kellie	JCS	-	(1956)	3809
C_9H_9NO	6-Methoxyindole	-	-	Reference for comparison	Witkop	JACS	75	(1953)	4474
C_9H_9NO	1-Phenyl-2-azetidinone	2-10μ	Sol	Spec	Sheehan	JACS	72	(1950)	5158
C_9H_9NOS	2-Phenylthiazolid-4-one	-	S	Freq, Struct	Davies	JCS	-	(1949)	2633
		-	Sol	Struct	Pennington	JACS	75	(1953)	109
C_9H_9NOS	p-Ethoxyphenyl isothiocyanate	2000-2300	Sol	Spec, Freq	Caldow	SA	13	(1958)	212
C_9H_9NOSe	5-Methoxy-2-methyl benzoselenazole	800-1725	Sol	Freq	O'Sullivan	JCS	-	(1960)	3278

$C_9H_9NO_2$	p-Acetylaminobenzaldehyde	-	Sol	Freq	Freeman	JACS	82	(1960)	2454
$C_9H_9NO_2$	Methyl β-(4-pyridyl) acrylate	-	Sol	Assign	Katritzky	JCS	-	(1958)	2182
$C_9H_9NO_2$	2-Phenyloxazolid-4-one	-	S	Freq	Davies	JCS	-	(1949)	2633
$C_9H_9NO_3$	N-Acetoxybenzamide	-	S	Freq	Freeman	JACS	80	(1958)	5954
$C_9H_9NO_3$	Andrenochrome	1800-3500	S	Freq	Heacock	CJC	36	(1958)	1550
$C_9H_9NO_3$	Adrenolutin	1500-3500	S	Freq, Struct	Heacock	CJC	36	(1958)	1550
$C_9H_9NO_3 \cdot H_2O$	Adrenolutin hydrate	1500-3500	S	Freq, Struct	Heacock	CJC	36	(1958)	1550
$C_9H_9NO_3$	Benzamidoacetic acid	650-1740	-	Freq	Bellamy	JCS	-	(1955)	4221
$C_9H_9NO_3S$	Carbothiophenylglycine	-	S	I	Asar	JPC	59	(1955)	322
$C_9H_9NO_4$	Dimethyl pyridine-3,5-dicarboxylate	-	-	Ident	Eliel	JACS	75	(1953)	4291
$C_9H_9NO_4$	Ethyl m-nitrobenzoate	2-15μ	-	Freq, Struct	Rasmussen	JACS	71	(1949)	1073
		1700	Sol	Freq, I	Thompson	SA	9	(1957)	208
		700-1700	Sol	I	Katritzky	JCS	-	(1959)	2058
		800-1500	Sol	Assign	Katritzky	SA	16	(1960)	954
		-	-	Assign	Katritzky	SA	16	(1960)	964
$C_9H_9NO_4$	Ethyl o-nitrobenzoate	2-15μ	-	Freq, Struct	Rasmussen	JACS	71	(1949)	1073
$C_9H_9NO_4$	Ethyl p-nitrobenzoate	2-15μ	-	Freq, Struct	Rasmussen	JACS	71	(1949)	1073
		700-1700	Sol	I	Katritzky	JCS	-	(1959)	2051
		-	-	Assign	Katritzky	SA	16	(1960)	964
		600-900	L,Sol	CH out of plane study	Yoshida	CPBT	8	(1960)	389

$C_9H_9NO_4$	p-Nitrophenylpropionic acid	-	Sol	Freq	Goulden	SA	6	(1954)	129
$C_9H_9NO_5S$	p-Formylphenyl carboxymethyl sulfone oxime	-	S	Freq	Momose	CPBT	6	(1958)	412
$C_9H_9NO_6$	Carboxylated haematinic acid	3-15.5μ	S	Spec, Ident	McDonald	JACS	-	(1952)	4184
C_9H_9NS	2-Phenyl-3-thiopyrroline	6.19μ	Sol	Freq	Meyers	JOC	24	(1959)	1233
$C_9H_9N_2O_2$	ω-Diazo-O-methoxyacetophenone	2-11μ	Sol	Spec	Bose	JACS	74	(1952)	4703
$C_9H_9N_3$	3-Amino-5-phenylpyrazole	3.37-13.1μ	S	Ident, Struct	Searles	JOC	19	(1954)	928
$C_9H_9N_3O$	2-Indolecarboxylic acid hydrazide	-	-	Ident	Ainsworth	JACS	77	(1955)	1148
$C_9H_9N_3O_2$	1-Acetyl-5-methoxybenzotriazole	-	S	H bond, Freq	O'Sullivan	JCS	-	(1960)	3653
$C_9H_9N_3O_2$	N-2 -Cyanoethyl-p-nitroaniline	-	-	Freq	Braunholtz	JCS	-	(1953)	1817
$C_9H_9N_3O_4$	N-Acetyl-p-nitrobenzamidoxime	-	-	Struct, Freq	Bergmann	JOC	18	(1953)	64
$C_9H_9N_3O_4$	2-(2,4-Dinitrophenyl)-3-methylethylenimine	2-12μ	Sol	Spec, Freq, Struct	Cram	JACS	75	(1953)	33
$C_9H_9N_3O_6$	DNP-DL-Alanine	625-5000	S	Spec, Ident	Friedberg	CJC	37	(1959)	1469
$C_9H_9N_3O_6$	DNP-L-Alanine	625-5000	S	Spec, Ident	Friedberg	CJC	37	(1959)	1469
$C_9H_9N_3O_6$	Trimethylenetrinitrobenzene	-	-	IR data	Boer	RTC	79	(1960)	231

$C_9H_9N_3O_7$	DNP-DL-Serine	625-5000	S	Spec, Ident	Friedberg	CJC	37	(1959)	1469
$C_9H_9N_5O$	2-Phenoxy-4,6-diamino-1,3,5-triazine	2-16μ	S	Spec, Struct	Padgett	JACS	80	(1958)	803
C_9H_{10}	Allylbenzene	-	-	Reactant in Bromination	Lora	JCS	-	(1950)	1418
C_9H_{10}	Hydrindene	3.2-3.4μ	Sol	HC band study	Wall	JACS	62	(1940)	2225
		-	-	Analysis	Heigl	IEC	19	(1947)	293
		-	Sol	Analysis	Williams	AC	24	(1952)	1911
		2-16μ	L	Spec	Entel	AC	25	(1953)	1303
		800-1725	Sol	Freq	O'Sullivan	JCS	-	(1960)	3278
C_9H_{10}	Methylcyclooctatetraene	2-16μ	-	Spec	Cope	JACS	74	(1952)	179
C_9H_{10}	m-Methylstyrene	700-1900	L	Spec	Bryant	JCS	-	(1949)	2389
		-	-	Thermo	Kilpatrick	JRNB	42	(1949)	225
		-	-	Analysis	Hadden	AC	26	(1954)	434
		8.79-12.6μ	-	Quant, Analysis	Hadden	AC	29	(1957)	1554
C_9H_{10}	o-Methylstyrene	-	-	Thermo	Kilpatrick	JRNB	42	(1949)	225
		-	-	Analysis	Hadden	AC	26	(1954)	434
		11.6-13μ	L	Quant,Analysis	Hadden	AC	29	(1957)	1554
		-	Sol	Freq, Spec	Potts	SA	15	(1959)	679
C_9H_{10}	p-Methylstyrene	800-1950	-	Freq, Spec	Barnes	IEC	15	(1943)	659
		400-3600	L	Spec	Barnes	JAP	16	(1945)	77
		400-3600	L	Spec	Williams	RSI	19	(1948)	135
		700-1900	L	Spec	Bryant	JCS	-	(1949)	2389
		-	-	Thermo	Kilpatrick	JRNB	42	(1949)	225
		-	-	Analysis	Hadden	AC	26	(1954)	434
		8.77-12μ	L	Quant Analysis	Hadden	AC	29	(1957)	1554
C_9H_{10}	α-Methylstyrene	-	-	Thermo	Kilpatrick	JRNB	42	(1949)	225
		-	-	Analysis, Struct	Foster	JACS	75	(1953)	2910
		9-15μ	-	Spec	Patterson	AC	26	(1954)	823
		1.626μ	Sol	Ext coeffitient	Goddu	AC	29	(1957)	1790
		7.3μ	L	Quant Anal	Kiley	AC	29	(1957)	1554

C_9H_{10}	β-Methylstyrene	-	-	Thermo	Kilpatrick	JRNB	42	(1949)	225
		-	-	Freq	Hammond	JACS	76	(1954)	4081
C_9H_{10}	Phenylcyclopropane	-	-	Freq	Smith	JACS	73	(1951)	3840
		-	-	Reference	Hammond	JACS	76	(1954)	4081
C_9H_{10}	2-Phenylpropene-1	-	Sol	Freq, Spec	Potts	SA	15	(1959)	679
C_9H_{10}	3-Phenylpropene-1	-	Sol	Freq, Spec	Potts	SA	15	(1959)	679
C_9H_{10}	cis-Propenylbenzene	702-3106	L	Freq	Mixer	JACS	75	(1953)	4094
C_9H_{10}	trans-Propenylbenzene	694-3106	L	Freq	Mixer	JACS	75	(1953)	4094
		-	Sol	Freq, Spec	Potts	SA	15	(1959)	679
$C_9H_{10}BrNO$	N-(m-Bromobenzylidene) 2-aminoethanol-1	-	Sol	Freq, H bond	Bergmann	JACS	75	(1953)	68
$C_9H_{10}BrNO$	3-Bromo-4-methyl-acetanilide	1500-1750	S,Sol	Assign, Spec	Richards	JCS	-	(1947)	1248
$C_9H_{10}BrNO_2S$	1-p-Bromophenyl-cysteine	2-15 μ	S	Spec, Struct	Fuson	JACS	74	(1952)	1
$C_9H_{10}BrNO_3$	Ethyl 2-methyl-5-bromo-6-oxynicotinate	-	-	Freq	Ramirez	JOC	19	(1954)	183
$C_9H_{10}Br_2O_2$	2-Bromo-4,5-dimethoxy-benzyl bromide	1500-5000	Sol	Freq	Briggs	AC	29	(1957)	904
$C_9H_{10}Br_2O_5$	exo-cis-4,5-Dibromo-3,6-endoxotetra-hydrophthalic acid 1-methyl ester	-	-	Ident	Berson	JACS	76	(1954)	4060
$C_9H_{10}ClNO$	N-(2-Hydroxymethyl)-2-chlorobenzalamine	2.5-15 μ	L,Sol	Spec, Struct	Daasch	JACS	72	(1950)	3673
$C_9H_{10}ClNO_3$	Ethyl 2-methyl-6-	2-16 μ	Sol	Spec, Freq	Ramirez	JOC	19	(1954)	183

$C_9H_{10}ClNO_2$	Ethyl 2-methyl-6-chloronicotinate	2-16μ	Sol	Spec, Freq	Ramirez	JOC	19	(1954)	183
$C_9H_{10}ClNO_2$	Ethyl N-chlorophenyl-urethan	1000-3500	Sol	Spec, Assign	Katritzky	JCS	-	(1960)	679
$C_9H_{10}ClNO_2S$	1-p-Chlorophenyl-cysteine	2-15μ	S	Spec, Struct	Fuson	JACS	74	(1952)	1
$C_9H_{10}Cl_2N_2O_2$	2,6-Dichloro-p-phenylene-monoethylcarbamate monoamine	-	-	Spec	Adams	JACS	74	(1952)	3029
$C_9H_{10}FNO_2S$	1-p-Fluorophenylcysteine	2-15μ	S	Spec, Struct	Fuson	JACS	74	(1952)	1
$C_9H_{10}F_6O_2S_2$	Diethyl dithiolhexa-fluoroglutarate	2-16μ	L	Spec, Freq	Hauptschein	JACS	74	(1952)	4005
$C_9H_{10}F_6O_2S_2$	Pentamethylenedithiol bis-(trifluoroacetate)	2-16μ	L	Spec, Freq	Hauptschein	JACS	74	(1952)	4005
$C_9H_{10}F_6O_4$	1,5-Pentanediol bis-(trifluroroacetate)	-	L	Freq	Rappaport	JACS	75	(1953)	2695
$C_9H_{10}IO_3S$	p-Formylaminomethyl-phenyl iodomethyl sulfone	-	S	Freq	Momose	CPBT	6	(1958)	412
$C_9H_{10}N_2$	Myosmine	2-15μ	Sol	Spec	Eddy	AC	26	(1954)	1428
		3-6.5μ	Sol	Spec, Freq	Witkop	JACS	76	(1954)	5597
$C_9H_{10}N_2.HCl$	Myosmine hydrochloride	3-6.5μ	S	Spec, Freq	Witkop	JACS	76	(1954)	5597
$C_9H_{10}N_2 \cdot 2HCl$	Myosmine dihydro-chloride	3-6.5μ	S	Spec, Freq	Witkop	JACS	76	(1954)	5597
$C_9H_{10}N_2$	1-Phenyl-2-pyrazoline	-	-	Freq	Snyder	JACS	74	(1952)	3243

$C_9H_{10}N_2O$	2-Methylglyoxal-1-monophenylhydrazone	650-4000	S,Sol	H bond	Tanner	SA	15 (1959)	20
$C_9H_{10}N_2O$	1-Phenyl-3-pyrazolidone	-	Sol	Freq, H bond	Kurosaki	NKZ	79 (1958)	1339
$C_9H_{10}N_2O_2$	5-Cyano-1,3-dicarboximidocyclohexane	-	-	Ident	Newman	JACS	76 (1954)	4598
$C_9H_{10}N_2O_2$	Hippuramide	1500-1750	S	Assign, Spec	Richards	JCS	- (1947)	1248
$C_9H_{10}N_2O_2$	Pyruvic acid phenylhydrazone	650-4000	S,Sol	H bond, Struct	Tanner	SA	15 (1959)	20
$C_9H_{10}N_2O_2S_2$	Aureothricin	- 2-16 μ	S -	Freq Spec, Freq, Struct	Celmer Celmer	JACS JACS	74 (1952) 77 (1955)	6304 2861
$C_9H_{10}N_2O_3$	Diacetyl-2-amino-pyridine-1-oxide	-	-	Freq	Adams	JACS	76 (1954)	2785
$C_9H_{10}N_2O_3$	5-Nitro-o-acetotoluidide	700-1800	S,S	Freq, I	Randle	JCS	- (1952)	4153
$C_9H_{10}N_2O_3$	6-Methyl-2-nitro-acetanilide	2700-3700	Sol	Spec, H bond	Buswell	JACS	61 (1939)	3252
$C_9H_{10}N_2O_4$	Ethyl 2-methyl-5-nitronicotinate	-	Sol	Freq, Struct	Fanta	JACS	75 (1953)	737
$C_9H_{10}N_2O_4$	Ethyl N-nitrophenyl-urethan	1000-3500	Sol	Spec, Assign, I	Katritzky	JCS	- (1960)	676
$C_9H_{10}N_2S$	p-Dimethylaminophenyl thiocyanate	2000-2300	Sol	Freq	Caldow	SA	13 (1958)	212
$C_9H_{10}N_2S$	p-Dimethylaminophenyl isothiocyanate	-	Sol	Freq	Rao	CS	27 (1958)	474
$C_9H_{10}N_4O_3$	m-Nitroacetophenone semicarbazone	700-3500	S	Ident, Assign	Davison	JCS	- (1955)	3389

$C_9H_{10}N_4O_4$	Acetone-2,4-dinitrophenylhydrazone	2-15μ	S	Spec, Ident	Ross	AC	25	(1953)	1288
		6-15μ	S	Spec	Jones	AC	28	(1956)	191
$C_9H_{10}N_4O_4$	Propionaldehyde 2,4-dinitrophenylhydrazone	6-15μ	S	Spec	Ross	AC	25	(1953)	1288
		2-15μ	S	Spec	Jones	AC	28	(1956)	191
$C_9H_{10}N_6$	N-Phenylmelamine	2-16μ	S	Spec, Struct, Assign	Padgett	JACS	80	(1958)	803
$C_9H_{10}N_6O_2$	2,4-Dimethoxy-6-N,N-dicyanomethylamino-S-triazine	2-15μ	S	Assign	Reimschussel	JACS	82	(1960)	3756
$C_9H_{10}O$	2-Allylphenol	2.7-3.0μ	Sol	H bond, Freq	Baker	JACS	80	(1958)	5358
		2.7-2.95μ	Sol	H bond	Baker	JACS	81	(1959)	4524
		3400-3800	Sol	Spec, H bond	West	JACS	81	(1959)	1614
		-	-	Intramolecular interaction	Oki	BCSJ	33	(1960)	717
		-	Sol,L	H bond, Freq	Reeves	CJC	38	(1960)	1249
		650-1400	Sol	Spec	Shrewsbury	SA	16	(1960)	1294
$C_9H_{10}O$	4-Allylphenol	650-1400	Sol	Spec	Shrewsbury	SA	16	(1960)	1294
$C_9H_{10}O$	Allyl phenyl ether	10-15μ	L	Spec	Patterson	AC	26	(1954)	823
		-	Sol	Freq, Spec	Potts	SA	15	(1959)	679
$C_9H_{10}O$	Benzyl vinyl ether	600-4000	G,Sol	Spec, Freq	Miakawa	BCSJ	29	(1956)	110
$C_9H_{10}O$	Cyclooctatetraenylmethyl alcohol	2-16μ	L	Spec, Freq, Assign	Cope	JACS	75	(1953)	3215
$C_9H_{10}O$	Hemellitaldehyde	-	Sol	Freq	Hunsberger	JACS	77	(1955)	2466
$C_9H_{10}O$	4-Indanol	-	-	Analysis	Golumbic	JACS	72	(1950)	1939
		15-25μ	Sol	Spec, Freq, I	Friedel	JACS	73	(1951)	2881
$C_9H_{10}O$	5-Indanol	-	-	Analysis	Golumbic	JACS	72	(1950)	1939
		15-25μ	Sol	Spec, Freq, I	Friedel	JACS	73	(1951)	2881

$C_9H_{10}O$	2-Isopropenylphenol	-	-	Intramolecular interaction	Oki	BCSJ	33	(1960)	717
$C_9H_{10}O$	o-Methylacetophenone	-	L	Freq	Schubert	JACS	77	(1955)	4172
		-	Sol	Freq, H bond, I	Forbes	CJC	35	(1957)	488
		-	Sol	Freq, I	Jones	CJC	35	(1957)	504
$C_9H_{10}O$	p-Methylacetophenone	5-7μ	L	Freq	Soloway	JACS	73	(1951)	5000
		1688	Sol	Freq, I	Tanaka	JCP	24	(1956)	311
		-	Sol	Freq, H bond, I	Forbes	CJC	35	(1957)	488
		-	Sol	Freq, I	Jones	CJC	35	(1957)	504
		7700	Sol	I	Thompson	SA	9	(1957)	208
$C_9H_{10}O$	Methyl benzyl ketone	1700	Sol	Freq, I	Thompson	SA	9	(1957)	208
$C_9H_{10}O$	2-Methyl-2,3-dihydro-benzofuran	2-16μ	L	Spec	Entel	JACS	73	(1951)	4152
$C_9H_{10}O$	α-Methylstyrene oxide	2-15μ	L	Spec, Freq	Patterson	AC	26	(1954)	823
		-	Sol	Freq	Potts	AC	27	(1955)	1027
$C_9H_{10}O$	2-Phenyl-2-propen-1-ol	2.95-14.2μ	L	I	Hatch	JACS	76	(1954)	2705
$C_9H_{10}O$	2-Phenylpropionaldehyde	-	-	Ident	Newman	JACS	76	(1954)	1840
$C_9H_{10}O$	Phenyltrimethylene oxide	2-15μ	L,Sol	Spec, Freq, Assign	Barrow	JACS	75	(1953)	1175
$C_9H_{10}O$	2-Propenylphenol	2.7-3.0μ	Sol	H bond	Baker	JACS	80	(1958)	5358
$C_9H_{10}O$	Propiophenone	0.7-2.5μ	L	C=O study	Ellis	JACS	51	(1929)	1384
		500-1750	L	Assign	Thompson	JCS	-	(1945)	640
		-	L	Analysis	Cram	JACS	74	(1952)	2137
		1600-1800	Sol	Freq	Fuson	JACS	76	(1954)	2526
		-	Sol	Freq	McBee	JACS	77	(1955)	83
		1700-	Sol	Freq, I	Thompson	SA	9	(1957)	208
		-	Sol	Freq, I	Moreillo	SA	15	(1959)	497
		700-4000	Sol	Spec, Freq	Adelfang	JACS	82	(1960)	4241
$C_9H_{10}O$	3,4-Xylaldehyde	-	Sol	Freq	Hunsberger	JACS	77	(1955)	[illegible]

$C_9H_{10}O$	3,4-Xylaldehyde	-	Sol	Freq	Hunsberger	JACS	77	(1955)	2466
$C_9H_{10}OS$	Benzylthio acetate	2.5-16 μ	Struct, Freq		Nyquist	SA	15	(1959)	514
$C_9H_{10}OS$	Ethylthio benzoate	-	Sol	Freq	Baker	JACS	82	(1960)	1923
$C_9H_{10}OS$	Phenylthio propionate	2.5-16 μ	S	Struct, Freq	Nyquist	SA	15	(1959)	514
$C_9H_{10}O_2$	Ethylbenzoate	0.7-2.5 μ	L	C=O study	Ellis	JACS	51	(1929)	1384
		500-1750	L	Assign	Thompson	JCS	-	(1945)	640
		1711-1721	Sol	Freq, I	Barrow	JCP	21	(1953)	2008
		-	Sol	I	Hirota	BCSJ	27	(1954)	295
		650-1740	Sol	Freq	Bellamy	JCS	-	(1955)	4221
		-	-	Freq	Highet	JACS	77	(1955)	4399
		625-900	-	Out of plane CH study	Margoshes	SA	7	(1955)	14
		12-15 μ	S,Sol	Freq	Kross	JACS	78	(1956)	1332
		1500-5000	Sol	Freq	Briggs	AC	29	(1957)	904
		-	-	Dielectric const	Krishna	TFS	53	(1957)	767
		-	-	Freq	Rao	CS	26	(1957)	375
		1700	Sol	Freq, I	Thompson	SA	9	(1957)	208
		11-15 μ	L	Spec	Adams	AC	30	(1958)	1322
		-	Sol	Freq	Exner	CIL	-	(1958)	1174
		-	Sol	Assign	Katritzky	JCS	-	(1958)	2182
		600-4000	Sol	Freq	Katritzky	JCS	-	(1958)	4155
		-	Sol	Freq, I	Thompson	SA	13	(1958)	236
		-	Sol	I, Freq	Mirone	AC	49	(1959)	52
		-	Sol	Freq	Horak	TEL	3	(1959)	19
		-	Sol	I	Gutjahr	SA	16	(1960)	1209
		650-900	Sol,L	CH out of plane study	Yoshida	CPBT	8	(1960)	389
$C_9H_{10}O_2$	o-Ethylbenzoic acid	-	-	Ident	Weinstock	JACS	75	(1953)	2546
		-	-	Ident	Godfrey	JACS	77	(1955)	3342
$C_9H_{10}O_2$	Ethyl hepta-2,6-diynoate	-	-	Freq, I	Shaw	JCS	-	(1954)	3217
$C_9H_{10}O_2$	(2-Hydroxycyclohexylidine) acetic acid lactone	1550-1850	Sol	Freq, I	Jones	CJC	37	(1959)	2007

$C_9H_{10}O_2$	6-Hydroxyhemellitaldehyde	-	Sol	Freq	Hunsberger	JACS	77	(1955) 2466
$C_9H_{10}O_2$	p-Hydroxypropiophenone	3μ	Sol	Freq	Ingraham	JACS	74	(1952) 2297
		1700	Sol	Freq, I	Thompson	SA	9	(1957) 208
		3593	Sol	Freq & Hammett const	Baker	JPC	62	(1958) 744
		600-4000	S	Spec, Freq	Herzert	JOC	25	(1960) 405
$C_9H_{10}O_2$	6-Hydroxy-3,4-xylaldehyde	-	Sol	Freq	Hunsberger	JACS	77	(1955) 2466
$C_9H_{10}O_2$	cis-Indan-1,2-diol	3500-3650	Sol	H bond	Brimacombe	TE	4	(1958) 351
$C_9H_{10}O_2$	trans-Indan-1,2-diol	3500-3650	Sol	H bond	Brimacombe	TE	4	(1958) 351
$C_9H_{10}O_2$	m-Methoxyacetaophenone	5-7μ	L	Freq	Soloway	JACS	73	(1951) 5000
$C_9H_{10}O_2$	o-Methoxyacetophenone	1550-4000	L	Freq	Hergert	JACS	75	(1953) 1622
		-	-	Freq	Pinder	JCS	-	(1954) 113
$C_9H_{10}O_2$	p-Methoxyacetophenone	5-7μ	S	Freq	Soloway	JACS	73	(1951) 5000
		1550-4000	L	Freq	Hergert	JACS	75	(1953) 1622
		1600-1800	Sol	Freq	Fuson	JACS	76	(1954) 2526
		700-1000	S,Sol	Out of plane C-H deformation study	Bellamy	JCS	-	(1955) 2818
		1683	Sol	Freq, I	Tanaka	JCP	24	(1956) 311
		1700	Sol	Freq, I	Thompson	SA	9	(1957) 208
$C_9H_{10}O_2$	3-Methylbicyclo[2',2',1] hepta-2,5-diene-2-carboxylic acid	680-1000	S	Struct	Jones	JCS	-	(1956) 4073
$C_9H_{10}O_2$	3-Methylene-6-hydroxybicyclo[2,2,1]heptane-2-carboxylic lactone	680-1000	S	Struct	Jones	JCS	-	(1956) 4073
$C_9H_{10}O_2$	Methyl m-methylbenzoate	700-1700	Sol	I	Katritzky	JCS	-	(1959) 2058
		800-1500	Sol	Assign	Katritzky	SA	16	(1960) 954
		-	-	Assign	Katritzky	SA	16	(1960) 964
$C_9H_{10}O_2$	Methyl o-methylbenzoate	800-1600	-	I, Ext coefficient	Katritzky	JCS	-	(1960) 954
		800-1500	Sol	Assign	Katritzky	SA	16	(1960) 964

$C_9H_{10}O_2$	Methyl o-methylbenzoate	800-1600	-	I, Ext coefficient	Katritzky	JCS	-	(1959)	3670
		800-1500	Sol	Assign	Katritzky	SA	16	(1960)	954
		-	-	Assign	Katritzky	SA	16	(1960)	964
$C_9H_{10}O_2$	Methyl p-methylbenzoate	700-1700	Sol	Freq, Assign	Katritzky	JCS	-	(1959)	2051
		800-1500	Sol	Assign	Katritzky	SA	16	(1960)	954
		-	-	Assign	Katritzky	SA	16	(1960)	964
		650-900	Sol,L	CH out of plane study	Yoshida	CPBT	8	(1960)	389
$C_9H_{10}O_2$	m-Methylphenyl acetate	-	Sol	Freq	Freeman	JACS	82	(1960)	2454
$C_9H_{10}O_2$	p-Methylphenyl acetate	-	Sol	Freq	Freeman	JACS	82	(1960)	2454
$C_9H_{10}O_2$	Methyl α-phenylacetate	-	Sol	Assign	Katritzky	JCS	-	(1958)	2182
		600-4000	Sol	Freq	Katritzky	JCS	-	(1958)	4155
$C_9H_{10}O_2$	2,4-Nonadiynoic acid	-	Sol	Freq, I	Allan	JCS	-	(1955)	1874
$C_9H_{10}O_2$	Phenyl glycidyl ether	2-15μ	L,Sol	Spec, Freq	Patterson	AC	26	(1954)	823
		1-3.1μ	Sol	Terminal epoxides	Goddu	AC	30	(1958)	2013
$C_9H_{10}O_2$	Phenylpropionic acid	-	Sol	Freq	Goulden	SA	6	(1954)	129
$C_9H_{10}O_2$	Phenyl propionate	-	Sol	Freq, I	Thompson	SA	13	(1958)	236
$C_9H_{10}O_2$	5,6,7,8-Tetrahydro-coumarin	5.82-14.05μ	S	I	Dreiding	JACS	76	(1954)	6388
$C_9H_{10}O_2$	2,3,5-Trimethyl-p-benzo-quinone	5-15μ	Sol	Effect of substitution	Yates	JACS	78	(1956)	650
		-	Sol	Assign	Flaig	A	626	(1959)	215
$C_9H_{10}O_2$	2,5,6-Trimethyl-p-benzoquinone	-	Sol	Assign	Flaig	A	626	(1959)	215
$C_9H_{10}O_2S$	Ethyl β-(2'-thienyl) acrylate	800-2000	L	I	Katritzky	JCS	-	(1959)	3500
		800-1500	Sol	Assign	Katritzky	SA	16	(1960)	954
		-	-	Assign	Katritzky	SA	16	(1960)	964
$C_9H_{10}O_2S$	Phenyl allyl sulfone	1000-1500	Sol	Spec	Schrieber	AC	21	(1949)	1168

$C_9H_{10}O_3$	Acetovanillone	-	Sol	Freq	Glennie	JACS	77	(1955)	2409
		-	Sol	Freq	Smith	JCS	-	(1955)	2347
		600-4000	S	Spec, Freq	Herzert	JOC	25	(1960)	405
$C_9H_{10}O_3$	2,3-Dimethyl-5-methoxy-1,4-benzoquinone	5-15μ	Sol	Freq	Yates	JACS	78	(1956)	650
$C_9H_{10}O_3$	Ethyl β-(2'-furyl)-acrylate	800-1200	Sol	Freq, Assign	Katritzky	JCS	-	(1959)	657
		800-1500	Sol	Assign	Katritzky	SA	16	(1960)	954
		-	-	Assign	Katritzky	SA	16	(1960)	964
$C_9H_{10}O_3$	Ethyl p-hydroxybenzoate	3μ	Sol	Freq	Ingraham	JACS	74	(1952)	2297
		3945.5	Sol	Freq	Baker	JPC	62	(1958)	744
		-	Sol	Freq	Stone	SA	10	(1958)	17
		3200-3800	Sol	Freq	Puttnam	JCS	-	(1960)	5100
		650-900	L,Sol	Freq	Yoshida	CPBT	8	(1960)	389
$C_9H_{10}O_3$	Ethyl o-hydroxybenzoate	800-1500	Sol	Assign	Katritzky	SA	16	(1960)	954
$C_9H_{10}O_3$	Ethyl phenyl carbonate	-	Sol,L	Freq, Struct	Hales	JCS	-	(1957)	618
		-	Sol	Freq	Baker	JACS	82	(1960)	1923
$C_9H_{10}O_3$	Ethyl salicylate	1-2.5μ	L	Spec	Smith	JACS	48	(1926)	1512
		800-1600	-	I	Katritzky	JCS	-	(1959)	3670
		-	-	Assign	Katritzky	SA	16	(1960)	964
$C_9H_{10}O_3$	6-Ethylsalicylic acid	5-16μ	S	Freq	Pasternack	JACS	74	(1952)	1928
$C_9H_{10}O_3$	2-Hydroxy-3,5,6-trimethyl-p-benzoquinone	-	Sol	Assign	Flaig	A	626	(1959)	215
$C_9H_{10}O_3$	4-Methoxycyclohepta-trienecarboxylic acid	673-2631	S	Freq	Bartels	JCS	-	(1952)	4461
$C_9H_{10}O_3$	2-Methoxy-3,5-dimethyl-p-benzoquinone	-	Sol	Assign	Flaig	A	626	(1959)	215
$C_9H_{10}O_3$	2-Methoxy-3,6-dimethyl p-benzoquinone	-	Sol	Assign	Flaig	A	626	(1959)	215
$C_9H_{10}O_3$	2-Methoxy-5,6-dimethyl-p-benzoquinone	5-15μ	S,Sol	Substitution effect	Yates	JACS	78	(1956)	650

$C_9H_{10}O_3$	2-Methoxy-5,6-dimethyl-p-benzoquinone	5-15μ -	S,Sol Sol	Substitution effect Assign	Yates Flaig	JACS A	78 (1956) 626 (1959)	650 215
$C_9H_{10}O_3$	4-Methoxy-2-hydroxy-acetophenone	1550-4000	S	Freq	Hergert	JACS	75 (1953)	1622
$C_9H_{10}O_3$	m-Methoxyphenyl acetate	-	Sol	Freq	Freeman	JACS	82 (1960)	2454
$C_9H_{10}O_3$	p-Methoxyphenyl acetate	-	Sol	Freq	Freeman	JACS	82 (1960)	2454
$C_9H_{10}O_3$	o-Methyl-L-(+)-mandelic acid	8-15μ	S	Spec, Ident	Bonner	JACS	73 (1951)	3126
$C_9H_{10}O_3$	Methyl p-methoxybenzoate	1500-5000 650-900	Sol L,Sol	Freq C-H out of plane study	Briggs Yoshida	AC CPBT	29 (1957) 8 (1960)	904 389
$C_9H_{10}O_3$	p-Methylphenoxyacetic acid	-	Sol	H bond	Oki	BCSJ	33 (1960)	119
$C_9H_{10}O_3$	α-Phenoxypropionic acid	-	Sol	Freq	Goulden	SA	6 (1954)	129
$C_9H_{10}O_3$	β-Phenoxypropionic acid	- -	Sol Sol	Freq H bond	Goulden Oki	SA BCSJ	6 (1954) 33 (1960)	129 119
$C_9H_{10}O_3$	Vertraldehyde	2-15μ 600-4000	S,Sol S	Freq Spec, Freq	Briggs Herzert	AC JOC	29 (1957) 25 (1960)	904 904
$C_9H_{10}O_4$	2,3-Dicarboxy-5-hydroxy-1,4-methylenecyclo-hexane-3,5-lactone	-	-	Freq	Berson	JACS	76 (1954)	4975
$C_9H_{10}O_4$	2,3-Dimethoxybenzoic acid	-	Sol	Freq	Edward	JOC	20 (1955)	847
$C_9H_{10}O_4$	2,4-Dimethoxybenzoic acid	-	-	Ident	Barnes	JACS	77 (1955)	3259
$C_9H_{10}O_4$	3,4-Dimethoxybenzoic acid	- -	- -	Ident Reference	Keepchan Barnes	JACS JACS	75 (1953) 77 (1955)	1025 3259

		2-15 μ	S	Freq	Briggs	AC	29	(1957)	904
		-	Sol	Freq	Goulden	SA	6	(1954)	129
		600-4000	S	Spec, Freq	Herzert	JOC	25	(1960)	405
$C_9H_{10}O_4$	3,5-Dimethoxybenzoic acid	-	-	Reference	Barnes	JACS	77	(1955)	3259
$C_9H_{10}O_4$	3,4-Dimethoxy-2,5-toluquinone	-	-	Freq	Vischer	JCS	-	(1953)	815
$C_9H_{10}O_4$	6-Hydroxy-2,4-dimethoxy-tropone	659-2924	S	Table	Johns	JCS	-	(1954)	4605
$C_9H_{10}O_4$	p-Methoxyphenoxyacetic acid	-	Sol	H bond	Oki	BCSJ	33	(1960)	119
$C_9H_{10}O_4$	Methyl vanillate	600-4000	S	Spec, Freq	Herzert	JOC	25	(1960)	405
$C_9H_{10}O_4$	Syringaldehyde	600-4000	S	Spec, Freq	Herzert	JOC	25	(1960)	405
$C_9H_{10}O_4S$	p-Methylphenyl carboxy-methyl sulfone	-	S	Freq	Momose	CPBT	6	(1958)	412
$C_9H_{10}O_5$	4-Keto-3,6-Methylene-hexahydro-trans-phthalic acid	-	-	Freq	Kwart	JACS	76	(1954)	4078
$C_9H_{10}O_6$	2-Hydroxymethyl-5-hydroxy-6-(α-hydroxy-propionyl)-4-pyrone	-	-	Freq	Woods	JACS	77	(1955)	3161
$C_9H_{10}S$	Phenyl allyl sulfide	1000-1500	Sol	Spec	Schreiber	AC	21	(1949)	1168
		1575-650	-	Spec	Tarbell	JACS	74	(1952)	48
$C_9H_{10}S$	Propenyl phenyl sulfide	1575-650	-	Spec	Tarbell	JACS	74	(1952)	48
$C_9H_{11}D$	Mesitylene-2d	500-650	Sol	Freq, I	Tiers	JCP	20	(1952)	761
$C_9H_{11}Br$	1-Phenylpropyl bromide	13.5-18.5 μ	L	Spec	Mortimer	JACS	69	(1947)	822

$C_9H_{11}Br$	γ-Phenylpropyl bromide	13.5-18.5μ	L	Spec	Mortimer	JACS	69	(1947)	822
$C_9H_{11}BrO_3$	2-Bromo-4,5-dimethoxybenzyl alcohol	1500-5000	Sol	Freq	Briggs	AC	29	(1957)	904
$C_9H_{11}Cl$	m-Chloroisopropylbenzene	-	-	Ident	Pines	JACS	77	(1955)	343
$C_9H_{11}Cl$	o-Chloroisopropylbenzene	-	-	Ident	Pines	JACS	77	(1955)	343
$C_9H_{11}Cl$	p-Chloroisopropylbenzene	-	-	Ident	Pines	JACS	77	(1955)	343
$C_9H_{11}Cl$	α-Chloroisopropylbenzene	-	Sol	Freq	Potts	AC	27	(1955)	1027
$C_9H_{11}Cl_3OSi$	Trichlorosilylpropyl phenyl ether	-	-	Inductive effect	Josien	CPR	249	(1959)	826
$C_9H_{11}N$	N-Ethylbenzalamine	2.5-15μ	L,Sol	Spec, Struct	Daasch	JACS	72	(1950)	3673
$C_9H_{11}N$	o-Methylbenzylidenemethylamine	-	-	Spec	Ban	CPBT	8	(1960)	194
$C_9H_{11}N$	1,2,3,4-Tetrahydroquinoline	600-4000	L	Spec	Heacock	CJC	34	(1956)	1782
$C_9H_{11}N.HCl$	1,2,3,4-Tetrahydroquinoline hydrochloride	600-4000	S	Spec, Freq	Heacock	CJC	34	(1956)	1782
$C_9H_{11}NO$	N-(o-Tolyl)acetamide	500-1750	S,Sol	Spec, Assign	Richards	JCS	-	(1947)	1248
$C_9H_{11}NO$	N-(p-Tolyl)acetamide	1500-1750	S,Sol	Spec, Assign	Richards	JCS	-	(1947)	1248
		3μ	Sol	Freq	Russell	SA	8	(1956)	138
		-	Sol	Freq	Freeman	JACS	82	(1960)	2454
$C_9H_{11}NO$	p-Aminopropiophenone	1700	Sol	Freq, I	Thompson	SA	9	(1957)	208
$C_9H_{11}NO$	p-Dimethylaminobenzaldehyde	700-1000	S,Sol	Out of plane CH deformation	Bellamy	JCS	-	(1955)	2818
		-	Sol	Freq	Pinchas	AC	27	(1955)	2

$C_9H_{11}NO$	N,N-Dimethylbenzamide	650-1740	Sol	Freq	Bellamy	JCS	-	(1955)	4221
		-	Sol	Freq	Exner	CIL	-	(1958)	1174
		-	Sol	Freq	Horak	TEL	3	(1959)	19
		51-59 μ	Sol	I	Schmulback	JCP	64	(1960)	1956
$C_9H_{11}NO$	N-(2-hydroxyethyl)-benzalamine	2.5-15 μ	L,Sol	Spec, Struct	Daasch	JACS	72	(1950)	3673
$C_9H_{11}NO$	N,p-Dimethylbenzamide	1600-3500	Sol	Freq	Thompson	SA	13	(1958)	236
$C_9H_{11}NO$	N-Methylphenylacetamide	1750-3600	S,Sol	Spec, Assign	Richards	JCS	-	(1947)	1248
		2-16 μ	Sol	Spec, Struct	Trenner	AC	22	(1950)	405
$C_9H_{11}NO$	N-Methylacetanilide	1500-1750	Sol	Spec, Assign	Richards	JCS	-	(1957)	1248
		2800-3000	S,L	Freq	Braunholtz	JCS	-	(1958)	2780
		600-4000	Sol	Freq	Katritzky	JCS	-	(1958)	4155
		-	Sol	Assign, I, Struct	Katritzky	JCS	-	(1959)	2067
$C_9H_{11}NO$	m-Methylacetanilide	700-4000	Sol	Assign, Freq	Holt	JCS	-	(1958)	1217
		1600-1725	Sol	Freq	Thompson	SA	13	(1958)	236
		-	Sol	Freq	Freeman	JACS	82	(1960)	2454
$C_9H_{11}NO$	Nitrosomesitylene	800-1600	S,Sol	Assign, Spec	Glusker	SA	6	(1954)	434
		533-1239	S,Sol	Assign	Nakamoto	JACS	78	(1956)	1113
		-	-	Freq	Luttke	ZE	61	(1957)	976
$C_9H_{11}NO$	Phenylacetoxime	2-16 μ	S	Spec, Ident	Gilsdorf	JACS	74	(1952)	1837
$C_9H_{11}NO_2$	α-Amino-β-phenylpropionic acid	-	S	Freq	Potts	AC	27	(1955)	1027
		600-4000	S	Ident	Epp	AC	29	(1957)	1283
$C_9H_{11}NO_2$	N-p-anisylacetamide	3 μ	Sol	Freq	Russell	SA	8	(1956)	138
$C_9H_{11}NO_2$	Bicyclo[2,2,1]-heptane-2,3-dicarboximide	1600-3500	Sol	Freq	Hall	JACS	80	(1958)	6428
$C_9H_{11}NO_2$	p-N-Dimethylamino-benzoic acid	-	Sol	Freq	Goulden	SA	6	(1954)	129
$C_9H_{11}NO_2$	Ethyl p-aminobenzoate	1700	Sol	Freq, I	Thompson	SA	9	(1957)	209

$C_9H_{11}NO_2$	Ethyl p-aminobenzoate	1700	Sol	Freq, I	Thompson	SA	9	(1957)	208
		700-1700	Sol	Freq, Assign, I	Katritzky	JCS	-	(1959)	2051
		-	-	Freq, Assign, Struct	Katritzky	JCS	-	(1959)	3674
		800-1500	Sol	Assign	Katritzky	SA	16	(1960)	954
		-	-	Assign	Katritzky	SA	16	(1960)	964
		650-900	L,Sol	CH out of plane study	Yoshida	CPBT	8	(1960)	389
$C_9H_{11}NO_2$	Ethyl carbanilate	2-15μ	Sol	Spec, Freq	Pristera	AC	25	(1953)	844
		-	Sol	Freq, I	Russell	JCS	-	(1955)	483
		2.5-7μ	S,Sol	Freq, Assign	Barr	JCS	-	(1956)	3428
		3μ	Sol	Freq	Russell	SA	8	(1956)	138
		600-4000	Sol	Freq	Katritzky	JCS	-	(1958)	4155
		1000-3500	Sol	Spec, Assign, I	Katritzky	JCS	-	(1960)	676
$C_9H_{11}NO_2$	Ethyl α-(3-pyridyl) acetate	-	Sol	Assign	Katritzky	JCS	-	(1958)	2182
		600-3000	Sol	Assign	Katritzky	JCS	-	(1958)	3165
$C_9H_{11}NO_2$	Ethyl α-(4-pyridyl) acetate	-	Sol	Assign	Katritzky	JCS	-	(1958)	2182
$C_9H_{11}NO_2$	N-(o-Hydroxybenzylidene)-2-aminoethanol-1	2-15μ	L,Sol	Spec, Struct	Daasch	JACS	72	(1950)	3673
		-	S,Sol	Freq, H bond	Bergmann	JACS	75	(1953)	68
$C_9H_{11}NO_2$	N-(2-Hydroxyethyl)-4-hydroxybenzalamine	2.8-15μ	S	Spec, Struct	Daasch	JACS	72	(1950)	3673
$C_9H_{11}NO_2$	Isopropyl pyridine-3-carboxylate	600-3000	Sol	Assign	Katritzky	JCS	-	(1958)	3165
		800-1500	Sol	Assign	Katritzky	SA	16	(1960)	954
		-	-	Assign	Katritzky	SA	16	(1960)	964
$C_9H_{11}NO_2$	p-Methoxyacetanilide	1500-1750	S,Sol	Spec, Assign	Richards	JCS	-	(1947)	1248
		1600-1725	Sol	Freq	Thompson	SA	13	(1958)	236
		-	Sol	Freq	Freeman	JACS	82	(1960)	2454
$C_9H_{11}NO_2$	5-Methoxyacetanilide	700-4000	Sol	Assign, Freq	Holt	JCS	-	(1958)	1217
$C_9H_{11}NO_2$	6-Methoxyacetanilide	700-4000	Sol	Freq, Assign	Holt	JCS	-	(1958)	1217

$C_9H_{11}NO_2$	Methyl N-methyl-anthranilate	2-15 μ	-	Freq, Struct	Rasmussen	JACS	71	(1949)	1073
		600-4000	L	Spec	Heacock	CJC	34	(1956)	1782
$C_9H_{11}NO_2 \cdot HCl$	Methyl N-methyl-anthranilate hydrochloride	600-4000	S	Spec, Freq	Heacock	CJC	34	(1949)	1782
$C_9H_{11}NO_2$	Methyl β-(4-pyridyl)-propionate	-	Sol	Assign	Katritzky	JCS	-	(1958)	2182
$C_9H_{11}NO_2$	L-Phenylalanine	909-1538	Sol	Spec	Parker	SA	16	(1960)	910
$C_9H_{11}NO_2$	n-Propyl pyridine-3-carboxylate	600-3000	Sol	Assign	Katritzky	JCS	-	(1958)	3165
		800-1500	Sol	Assign	Katritzky	SA	16	(1960)	954
		-	-	Assign	Katritzky	SA	16	(1960)	964
$C_9H_{11}NO_2$	Salicyldimethylamide	3 μ	Sol	Freq, H bond	Flett	SA	10	(1958)	21
$C_9H_{11}NO_2S$	1-Hydroxybenzylmercapto-acetamide	-	S	Freq	Pennington	JACS	75	(1953)	109
$C_9H_{11}NO_2S$	N-Methyl-N-vinylbenzene-sulfonamide	-	-	Spec, Ident, Freq	Cairns	JOC	20	(1955)	627
$C_9H_{11}NO_2S$	1-Phenylcysteine	2-15 μ	S	Spec, Struct	Fuson	JACS	74	(1952)	1
$C_9H_{11}NO_3$	3-Carbethoxymethyl-pyridine-1-oxide	-	Sol	Assign	Katritzky	JCS	-	(1958)	2182
		800-3000	Sol	Spec, Freq, I	Katritzky	JCS	-	(1959)	3680
$C_9H_{11}NO_3$	Ethyl 2-Methyl-6-oxynicotinate	2-16 μ	Sol	Spec, I	Ramirez	JOC	19	(1954)	183
$C_9H_{11}NO_3$	Isopropyl 3-(pyridine-1-oxide)carboxylate	800-3000	Sol	Spec, Freq, I	Katritzky	JCS	-	(1959)	3680
$C_9H_{11}NO_3$	erythro-β-Phenylserine	2-16 μ	S	Spec, Config, Freq	Bolhofer	JACS	76	(1954)	1322
$C_9H_{11}NO_3$	threo-β-Phenylserine	2-16 μ	S	Spec, Config	Bolhofer	JACS	76	(1954)	1322
$C_9H_{11}NO_3$	n-Propyl 3-pyridine-1-oxide carboxylate	800-1500	Sol	Assign	Katritzky	SA	16	(1960)	954
		800-3000	Sol	Spec, Freq, I	Katritzky	JCS	-	(1959)	3680

$C_9H_{11}NO_3$	n-Propyl 3-pyridine-1-oxide carboxylate	800-1500	Sol	Assign	Katritzky	SA	16	(1960)	954
		800-3000	Sol	Spec, Freq, I	Katritzky	JCS	-	(1959)	3680
		-	-	Assign	Katritzky	SA	16	(1960)	964
$C_9H_{11}NO_3$	l-Tyrosine	600-4000	S	Ident	Epp	AC	29	(1957)	1283
$C_9H_{11}NO_3$	Tyrosine(L,DL)	700-1500	S	Modes of composition of D and L molecules	Tsuboi	BCSJ	32	(1959)	726
$C_9H_{11}NO_3S$	p-Acetylaminophenyl methyl sulfone	-	S	Freq	Momose	CPBT	6	(1958)	412
$C_9H_{11}NO_4$	3-Carbethoxy-5-methyl-2-pyrrolecarboxylic acid	-	-	Ident	Jones	JACS	77	(1955)	4069
$C_9H_{11}NO_4$	DL-3,3-Dimethyl-2,5-dioxo-4-hydroxypyrrolidine-4-propionic acid lactone	-	-	Freq	Kuehl	JACS	77	(1955)	251
$C_9H_{11}NO_4$	erythro-β-m-Hydroxyphenylserine	2-16μ	S	Spec, Config, Freq	Bolhofer	JACS	76	(1954)	1322
$C_9H_{11}NO_4$	threo-β-m-Hydroxyphenylserine	2-16μ	S	Spec, Config	Bolhofer	JACS	76	(1954)	1322
$C_9H_{11}NO_4$	erythro-β-p-Hydroxyphenylserine	2-16μ	S	Spec, Config, Freq	Bolhofer	JACS	76	(1954)	1322
$C_9H_{11}NO_4$	threo-β-p-Hydroxyphenylserine	2-16μ	S	Spec, Config	Bolhofer	JACS	76	(1954)	1322
$C_9H_{11}NO_4S$	p-Aminomethylphenyl carboxymethyl sulfone	-	S	Freq	Momose	CPBT	6	(1958)	412
$C_9H_{11}NO_5$	erythro-β-3,4-Dihydroxyphenylserine	2-16μ	S	Spec, Config, Freq	Bolhofer	JACS	76	(1954)	1322

$C_9H_{11}NO_5$	threo-β-3,4-Dihydroxy-phenylserine	2-16 μ	S	Spec, Config	Bolhofer	JACS	76	(1954)	1322
$C_9H_{11}NS$	N- α-Methylthiobenzyl-idenemethylamine	-	Sol	Freq	Goulden	JCS	-	(1953)	997
$C_9H_{11}N_2$	Nornicotine	2-15 μ 3-4 μ	L,Sol L,Sol	Spec Freq	Eddy Tallent	AC AC	26 28	(1954) (1956)	1428 953
$C_9H_{11}N_2$	2-(3-Pyridyl)pyrroline	6.15 μ	Sol	Freq	Meyers	JOC	24	(1959)	1233
$C_9H_{11}N_3O$	Acetophenone semi-carbazone	700-3500	S	Ident, Assign	Davison	JCS	-	(1955)	3389
$C_9H_{11}N_3O_2$	1-o-Carboxyphenyl-3,3-dimethyltriazen	600-1800	S	Spec, Assign	LeFevre	AJC	6	(1953)	341
$C_9H_{11}N_3O_3$	2-Hydroxy-3-methoxy-benzaldehyde semi-carbazone	700-3500	S	Ident, Assign	Davison	JCS	-	(1955)	3389
$C_9H_{11}N_5$	1-Ethyl-5-phenylamino-tetrazole	6-14 μ	S	Spec	Finnegan	JACS	77	(1955)	4420
$C_9H_{11}N_5$	1-Methyl-5-(2-tolyl) aminotetrazole	6-14 μ	S	Spec	Finnegan	JACS	77	(1955)	4420
$C_9H_{11}N_5$	1-Phenyl-5-ethylamino-tetrazole	6-14 μ	S	Spec	Finnegan	JACS	77	(1955)	4420
$C_9H_{11}N_5$	1-(2-Tolyl)-5-Methyl-aminotetrazole	6-14 μ	S	Spec	Finnegan	JACS	77	(1955)	4420
$C_9H_{11}N_5O$	2-Amino-3,6,7-trimethyl-4(3H)pteridinone	684-3405	S	Freq	Roth	JACS	73	(1951)	2864
$C_9H_{11}N_5O$	2-Methylamino-6,7-dimethyl-4(3H)-pteridinone	684-3405	S	Freq	Roth	JACS	73	(1951)	2864
$C_9H_{11}N_5O_3$	Biopterin	823-3650	S	Struct	Paterson	JACS	77	(1955)	3167

$C_9H_{11}N_5O_3$	Biopterin	823-3650	S	Struct	Paterson	JACS	77	(1955)	3167
$C_9H_{11}N_7$	2-Phenyl-4,6-dihydrazine -s-triazine	2-15μ	S	Assign	Reimschuessel	JACS	82	(1960)	3756
$C_9H_{11}O_3B$	n-Propyl-o-phenylene borate	6-14μ	S,L	Assign, Struct	Blau	JCS	-	(1960)	380
$C_9H_{11}O_5$	Tetrahydrofurfuryl fumarate	2-15μ	L	Assign	Walton	JACS	79	(1957)	3985
C_9H_{12}	2,3-Dimethylenebicyclo [2.2.1] heptane	720-2810	-	Freq	Bailey	JACS	77	(1957)	1606
C_9H_{12}	Isopropylbenzene	2850-3100	G	Wave number difference	Meyers	JOSA	15	(1927)	257
		5400-8900	Sol	Spec, Assign	Rose	JRNB	19	(1937)	143
		1050-1750	-	Spec, Freq	Barnes	IEC	15	(1943)	659
		2-15μ	L	Spec, Struct	Shreve	AC	23	(1951)	282
		3.4μ	Sol	Analysis	Simard	AC	23	(1951)	1384
		-	-	Analysis	Pines	JACS	74	(1952)	4872
		-	Sol	Analysis	Williams	AC	24	(1952)	1911
		-	-	Freq, I	Martin	AC	26	(1954)	1886
		-	-	Freq, Struct	O'Connor	JACS	76	(1954)	2368
		9-15μ	L	Spec	Patterson	AC	26	(1954)	823
		-	L	Analysis	Searles	JACS	76	(1954)	2313
		-	-	Ident	Pines	JACS	77	(1955)	343
		-	Sol	Freq	Potts	AC	27	(1955)	1027
		1020	Sol	I	Randle	TFS	52	(1956)	9
		758	Sol	Freq, I	LaLau	SA	14	(1959)	181
		2-15μ	L	Spec	Hawkes	SA	16	(1960)	633
		900-1030	Sol	Freq	Puttnam	JCS	-	(1960)	2934
C_9H_{12}	1-Methyl-2-ethylbenzene	-	-	Analysis	Heigl	IEC	19	(1947)	293
		8000-9000	Sol	Analysis	Hibbard	AC	21	(1949)	486
		22-39μ	L	Freq	Plyler	JCP	17	(1949)	218
		-	-	Analysis	Pines	JACS	74	(1952)	4872
		-	Sol	Analysis	Williams	AC	24	(1952)	1911
		-	-	Absorption	Bomstein	AC	25	(1953)	512

		-	L	Analysis, Freq	Herscher	JOSA	43	(1953)	980
		-	-	Analysis, Freq	Martin	AC	26	(1954)	1886
		15-35μ	S	Spec, Struct	Bentley	SA	15	(1959)	165
C_9H_{12}	1-Methyl-3-ethylbenzene	-	-	Analysis	Heigl	IEC	19	(1947)	293
		8000-9000	Sol	Analysis	Hibbard	AC	21	(1949)	486
		22-39μ	L	Absorption freq	Plyler	JCP	17	(1949)	218
		-	-	Analysis	Pines	JACS	74	(1952)	4872
		-	Sol	Analysis	Williams	AC	24	(1952)	1911
		-	-	Absorption	Bomstein	AC	25	(1953)	512
		-	-	Freq	Herscher	JOSA	43	(1953)	980
		-	-	Freq	Martin	AC	26	(1954)	1886
		700-1000	S,Sol	Out of plane CH deformation study	Bellamy	JCS	-	(1955)	2818
		-	L	Ident	Pines	JACS	77	(1955)	4370
		15-35μ	L	Spec, Struct	Bentley	SA	15	(1959)	165
C_9H_{12}	1-Methyl-4-ethylbenzene	-	-	Freq	Barnes	IEC	15	(1943)	659
		-	-	Analysis	Heigl	IEC	19	(1947)	293
		22-39μ	L	Freq	Plyler	JCP	17	(1949)	218
		-	-	Analysis	Pines	JACS	74	(1952)	4872
		-	Sol	Analysis	Williams	AC	24	(1952)	1911
		-	-	Freq	Bomstein	AC	25	(1953)	512
		-	L	Freq	Herscher	JOSA	43	(1953)	980
		-	-	Analysis	Martin	AC	26	(1954)	1886
		-	L	Ident	Pines	JACS	77	(1955)	4370
		15-35μ	S	Spec, Struct	Bentley	SA	15	(1959)	165
C_9H_{12}	n-Propylbenzene	5400-8900	Sol	Spec, Assign	Rose	JRNB	19	(1937)	143
		1150-1800	-	Freq, Spec	Barnes	IEC	15	(1943)	659
		8000-9000	Sol	Analysis	Hibbard	AC	21	(1949)	486
		-	-	Analysis	Ipatieff	JACS	71	(1949)	2685
		-	-	Analysis	Hastings	AC	24	(1952)	612
		-	Sol	Analysis	Williams	AC	24	(1952)	1911
		-	-	Freq	Martin	AC	26	(1954)	1886
		-	-	Freq, Struct	O'Connor	JACS	76	(1954)	2368
		-	L	Analysis, Freq	Searles	JACS	76	(1954)	2313
		-	Sol	Freq	Potts	AC	27	(1955)	1027

		1020	Sol	I	Randle	TFS	52	(1956)	9
		15-35μ	S	Spec, Struct	Bentley	SA	15	(1959)	165
		900-1030	Sol	Freq	Puttnam	JCS	-	(1960)	2934
C_9H_{12}	1,6-Spiro [4.4] nonadiene	-	-	Freq	Cram	JACS	77	(1955)	3576
C_9H_{12}	1,2,3-Trimethylbenzene	1.1-1.8μ	Sol	Spec	Liddell	JRNB	11	(1933)	599
		1.1-1.8μ	Sol	Spec	Mair	JRNB	11	(1933)	665
		-	-	Thermo	Kassel	JCP	4	(1936)	276
		1100-1800	-	Spec	Barnes	IEC	15	(1943)	659
		-	-	Analysis	Heigl	IEC	19	(1947)	293
		9-14μ	Sol	Freq, I	Cole	TFS	46	(1950)	103
		700-2020	-	Spec	Cannon	SA	4	(1951)	373
		-	-	Analysis	McCauley	JACS	73	(1951)	2013
		-	-	Analysis	Hastings	AC	24	(1952)	612
		5500-6300	L	Spec, Freq, I	Lauer	APS	6	(1952)	29
		-	-	Analysis	Pines	JACS	74	(1952)	4872
		-	Sol	Analysis	Williams	AC	24	(1952)	191
		-	-	Freq	Pines	JACS	75	(1953)	6226
		-	L	Ident	Pines	JACS	77	(1955)	4370
		900-1050	Sol	Vibrations study	Randle	JCS	-	(1955)	3497
		1650-2000	-	Freq, Assign	Whiffen	SA	7	(1955)	253
		-	-	Freq	Podall	AC	29	(1957)	1423
		15-35μ	S	Spec, Struct	Bentley	SA	15	(1959)	165
		764	Sol	Freq, I	LaLau	SA	14	(1959)	181
C_9H_{12}	1,2,4-Trimethylbenzene	1.1-1.8μ	Sol	Spec	Liddle	JRNB	11	(1933)	599
		1.1-1.8μ	Sol	Spec	Mair	JRNB	11	(1933)	665
		-	-	Thermo	Kassel	JCP	4	(1936)	276
		1150-1800	-	Spec	Barnes	IEC	15	(1943)	659
		-	-	Analysis	Heigl	IEC	19	(1947)	293
		8000-9000	Sol	Analysis	Hibbard	AC	21	(1949)	486
		9-14μ	Sol	Freq, I	Cole	TFS	46	(1950)	103
		750-2040	-	Spec	Cannon	SA	4	(1951)	373
		-	-	Analysis	McCaulay	JACS	73	(1951)	2013
		-	-	Ident	Clark	JACS	74	(1952)	1030
		-	-	Analysis	Hastings	AC	24	(1952)	612
		550-6300	L	Spec, I, Freq	Lauer	APS	6	(1952)	29

		-	-	Analysis	Pines	JACS	74	(1952)	4872
		-	Sol	Analysis	Williams	AC	24	(1952)	1911
		-	-	Freq	Pines	JACS	75	(1953)	6226
		-	-	Freq	Martin	AC	26	(1954)	1886
		-	L	Ident	Pines	JACS	77	(1955)	4370
		900-1050	Sol	Vibrations study	Randle	JCS	-	(1955)	3497
		1650-2000	-	Freq, Assign	Whiffen	SA	7	(1955)	253
		-	-	Freq	Podall	AC	29	(1957)	1423
		15-35μ	S	Spec, Struct	Bentley	SA	15	(1959)	165
		900-1030	Sol	Freq	Puttnam	JCS	-	(1960)	2934
C_9H_{12}	1,3,5-Trimethylbenzene	-	L	Freq	Ellis	JOSA	8	(1924)	1
		0-2.5μ	L	Spec	Ellis	PR	23	(1924)	48
		0.5-2.8μ	L	Spec	Ellis	PR	27	(1926)	298
		-	L	Freq	Barnes	JACS	49	(1927)	2034
		1.1-1.2μ	L	Band shift study	Barnes	JACS	51	(1929)	1750
		0-2.4μ	L	Spec	Lecomte	TFS	25	(1929)	864
		1.1-1.8μ	Sol	Spec	Liddel	JRNB	11	(1933)	559
		1.1-1.8μ	Sol	Spec	Mair	JRNB	11	(1933)	665
		-	-	Thermo	Kassel	JCP	4	(1936)	276
		1250-1800	-	Spec	Barnes	IEC	15	(1943)	659
		-	-	Freq, Thermo	Pitzer	JACS	65	(1943)	803
		-	-	Analysis	Heigl	IEC	19	(1947)	293
		12-14μ	Sol	Freq, I	Bell	PRS	A192	(1948)	498
		24-40μ	-	Freq	Plyler	JCP	16	(1948)	2008
		9-14μ	Sol	Freq, I	Cole	TFS	46	(1950)	103
		720-2000	-	Spec	Cannon	SA	4	(1951)	373
		-	-	Determination of impurities	McCaulay	JACS	73	(1951)	2013
		500-1500	L	Spec	Pimental	JCP	19	(1951)	513
		-	-	Ident	Clark	JACS	74	(1952)	1030
		2.5-15μ	Sol,L	Spec	Ham	JCP	20	(1952)	1336
		-	-	Analysis	Hastings	AC	24	(1952)	612
		5500-6200	L	Spec, Freq, I	Lauer	APS	6	(1952)	29
		-	-	Analysis	Pines	JACS	74	(1952)	4874
		-	Sol	Freq, H bond	Tamres	JACS	74	(1952)	3375
		-	-	Freq	Pines	JACS	75	(1953)	6226
		-	-	Freq	McCaulay	JACS	76	(1954)	2354
		700-2700	Sol	Spec	Martin	AC	26	(1954)	1886
		640-1400	Sol	Spec	Heller	JCP	22	(1954)	[illegible]

		640-1400	Sol	Spec	Haller	JCP	22	(1954)	720
		-	-	FC	Santhamma	CS	23	(1954)	118
		700-1000	S,Sol	Out of plane CH deformation study	Bellamy	JCS	-	(1955)	2818
		900-1050	L	Vibrations study	Randle	JCS	-	(1955)	3497
		1650-2000	-	Freq, Assign	Whiffen	SA	7	(1955)	253
		-	-	Freq	Podall	AC	29	(1957)	1423
		675-1700	Sol	Spec, Quant, Analysis	Bohon	AC	30	(1958)	245
		15-35μ	S	Spec, Struct	Bentley	SA	15	(1959)	165
		11-15.25μ	Sol	Analysis	Jackobsen	AC	31	(1959)	1600
		8.34	Sol	Freq, I	LaLau	SA	14	(1959)	181
		3400-3800	Sol	H bond	West	JACS	81	(1959)	1614
		700-3200	L,Sol, G	Spec	Banerjee	IJP	34	(1960)	1
$C_9H_{12}BrNO_3$	Ethyl 2-bromomethyl-1,4,5,6-tetrahydro-6-oxonicotinate	2-16μ	Sol	Spec, Struct	Ramirez	JOC	19	(1954)	183
$C_9H_{12}I_2$	Mesitylene-iodine complex	-	-	Mol const	Morcillo	ARS	56	(1960)	263
$C_9H_{12}NO_5P.H_2O$	N- Phosphoryl-DL-phenylalanine hydrate	3-15μ	L,S	Spec, Freq	Li	JACS	77	(1955)	3519
$C_9H_{12}N_2$	cis-1,2-Dicyano-1,2-dimethylcyclopentane	-	-	Freq	Overberger	JACS	75	(1953)	2082
		2-15μ	-	Ident	Overberger	JACS	77	(1955)	4104
$C_9H_{12}N_2$	trans-1,2-Dicyano-1,2-dimethylcyclopentane	-	-	Freq	Overberger	JACS	75	(1953)	2082
$C_9H_{12}N_2$	2,6-Dicyanoheptene-2	-	-	Freq	Overberger	JACS	75	(1953)	2082
$C_9H_{12}N_2O$	α-Hydroxypropionaldehyde phenylhydrazone	650-4000	S,Sol	H bond	Tanner	SA	15	(1959)	20
$C_9H_{12}N_2O$	Monohydroxyacetone phenylhydrazone	650-4000	S,Sol	H bond	Tanner	SA	15	(1959)	20

$C_9H_{12}N_2O$	3-Phenyl-1,1-dimethyl-urea	2-15μ	S	Spec	Kirkland	AC	29	(1957)	1127
$C_9H_{12}N_2O_2$	Ethyl N-(5-methyl-2-pyridyl)urethan	1000-3500	Sol	Spec, Assign, I	Katritzky	JCS	-	(1960)	676
$C_9H_{12}N_2O_3$	Ethyl N-(5-methyl-2-pyridyl-N-oxide) urethan	1000-3500	Sol	Spec, Assign, I	Katritzky	JCS	-	(1960)	676
$C_9H_{12}N_2O_3$	Ethyl 5-hydroxamino -2-methylnicotinate	-	Sol	Freq, Struct	Fanta	JACS	75	(1953)	737
$C_9H_{12}N_2O_4$	4,6-Dihydroxy-5-(2'-tetrahydropyranoxy) pyrimidine	650-3600	S	Struct	Tanner	SA	8	(1956)	9
$C_9H_{12}N_2O_4$	1-(O-Nitroanilino) 2,3-propanediol	-	-	Ident	Caldwell	JACS	74	(1952)	5187
$C_9H_{12}N_2O_4$	1-(p-Nitroanilino) 2,3-propanediol	-	-	Ident	Caldwell	JACS	74	(1952)	5187
$C_9H_{12}N_2O_6$	Uridine	9-10.5μ	S	Freq	Schwarz	APS	6	(1952)	15
$C_9H_{12}N_4$	2-n-Butylpurine	-	Sol	Freq	Brown	JCS	-	(1957)	682
$C_9H_{12}N_4O_2$	N-DL-α-Phenylethyl -N'-nitroguanidine	2-15μ	S	Spec, Freq	Lieber	AC	23	(1951)	1594
$C_9H_{12}N_4O_7$	n-Propylamine picrate	-	S	IR Photographs and interference figures	Mitchell	JACS	65	(1943)	128
$C_9H_{12}N_6$	Triethylenemelamine	-	-	Spec	Allen	AC	27	(1955)	540
$C_9H_{12}O$	1-Benzylethanol-1	9.5-10.5μ	-	Spec	Winstein	JACS	74	(1952)	1140
		665-5000	L	Freq	Zeiss	JACS	75	(1953)	897
		-	-	Reference	Bonner	JACS	76	(1954)	6350
$C_9H_{12}O$	Benzyl ethyl ether	-	-	Freq, Assign	Murray	JCP	9	(1941)	1-9

$C_9H_{12}O$	Benzyl ethyl ether	-	-	Freq, Assign	Murray	JCP	9	(1941)	129
$C_9H_{12}O$	1-Cyclopropyl-1-methyl-pent-2-yne-4-ene-ol	1-2.7 μ	Sol	Confirmation of cyclopropyl group	Washburn	JACS	80	(1958)	504
$C_9H_{12}O$	m-Ethoxytoluene	1000-1800	-	Spec, Freq	Barnes	IEC	15	(1943)	659
		-	-	Absorbance	Bomstein	AC	25	(1953)	512
		700-1700	Sol	I	Katritzky	JCS	-	(1959)	2058
		900-3000	Sol	Freq, Assign	Katritzky	JCS	-	(1959)	2062
$C_9H_{12}O$	p-Ethoxytoluene	1000-1800	-	Spec, Freq	Barnes	IEC	15	(1943)	659
		-	-	Absorbance	Bomstein	AC	25	(1953)	512
		700-1700	Sol	I	Katritzky	JCS	-	(1959)	2051
		900-3000	Sol	Freq, Assign	Katritzky	JCS	-	(1959)	2062
$C_9H_{12}O$	o-Ethylanisole	-	-	Ident	Binder	JCS	-	(1954)	113
$C_9H_{12}O$	2-Ethyl-4-methyl-phenol	650-1400	Sol	Spec	Shrewsbury	SA	16	(1960)	1294
$C_9H_{12}O$	2-Ethyl-5-methylphenol	650-1400	Sol	Spec	Shrewsbury	SA	16	(1960)	1294
$C_9H_{12}O$	3-Ethyl-4-methylphenol	650-1400	Sol	Spec	Schrewsbury	SA	16	(1960)	1294
$C_9H_{12}O$	4-Ethyl-m-cresol	5-15 μ	L,S	Spec	Kletz	JCS	-	(1947)	644
		650-1400	Sol	Spec	Shrewsbury	SA	16	(1960)	1294
$C_9H_{12}O$	2-Isopropylphenol	900-1030	Sol	Freq	Puttnam	JCS	-	(1960)	2934
		3500-3800	Sol	Freq	Puttnam	JCS	-	(1960)	5100
		650-1400	Sol	Spec	Shrewbury	SA	16	(1960)	1294
$C_9H_{12}O$	4-Isopropylphenol	3500-3800	Sol	Freq	Puttnam	JCS	-	(1960)	5100
		650-1400	Sol	Spec	Shrewsbury	SA	16	(1960)	1294
$C_9H_{12}O$	Mesitol	3100-3150	Sol	H bond	Lund	ACS	12	(1958)	298
$C_9H_{12}O$	1-Methyl-2-ethoxy-benzene	1000-1800	-	Spec, Freq	Barnes	IEC	15	(1943)	659
		-	-	Absorbance	Bomstein	AC	25	(1953)	512

$C_9H_{12}O$	2-Methyl-3-ethylphenol	650-1400	Sol	Spec	Schrewsbury	SA	16	(1960)	1294
$C_9H_{12}O$	2-Methyl-4-ethylphenol	650-1400	Sol	Spec	Shrewsbury	SA	16	(1960)	1294
$C_9H_{12}O$	2-Methyl-5-ethylphenol	650-1400	Sol	Spec	Shrewsbury	SA	16	(1960)	1294
$C_9H_{12}O$	3-Methyl-5-ethylphenol	5-15 μ	L,S	Spec	Kletz	JCS	-	(1947)	644
		-	-	Analysis	Goulumbic	JACS	72	(1950)	1939
		2.5-15 μ	Sol	Spec, Freq, I	Friedel	JACS	73	(1951)	2881
$C_9H_{12}O$	3-Methylocta-4,6-dien-1-yn-3-ol	-	-	Freq	Attenburrow	JCS	-	(1952)	1094
$C_9H_{12}O$	6-Methylocta-3,5-dien-7-yn-2-ol	-	-	Freq	Attenburrow	JCS	-	(1952)	1094
$C_9H_{12}O$	Phenyldimethylcarbinol	680-1750	-	Spec, Freq	Philpotts	AC	24	(1952)	638
		-	-		Copp	JCS	-	(1953)	4106
		-	Sol	Freq	Potts	AC	27	(1955)	1027
		-	-	Freq, Assign	Michinori	BCSJ	32	(1959)	950
$C_9H_{12}O$	1-Phenyl-1-propanol	9.5-10.5 μ	-	Spec	Winstein	JACS	74	(1952)	1140
		665-5000	L	Freq	Zeiss	JACS	75	(1953)	897
$C_9H_{12}O$	1-Phenyl-2-propanol	1.4 μ	Sol	H bond	Goldman	JOC	23	(1958)	751
$C_9H_{12}O$	2-Phenyl-2-propanol	-	-	Analysis	Russell	JACS	77	(1955)	4583
$C_9H_{12}O$	3-Phenyl-1-propanol	-	L	Ident	Searles	JACS	76	(1954)	2313
		1.4 μ	-	H bond	Goldman	JOC	23	(1958)	751
$C_9H_{12}O$	Propoxybenzene	-	-	Spec, Freq assign	Murray	JCP	9	(1941)	129
		1000-1700	-	Spec	Barnes	IEC	15	(1943)	659
		5-6 μ	-	Spec	Yong	AC	23	(1951)	709
		10-15 μ	L	Spec	Patterson	AC	26	(1954)	823
$C_9H_{12}O$	2-n-Propylphenol	2-16 μ	L	Spec	Entel	JACS	73	(1951)	4152
		650-1400	Sol	Spec	Shrewsbury	SA	16	(1960)	1294
$C_9H_{12}O$	4-n-Propylphenol	650-1400	Sol	Spec	Shrewsbury	SA	16	(1960)	1294

$C_9H_{12}O$	4-n-Propylphenol	650-1400	Sol	Spec	Shrewbury	SA	16	(1960)	1294
$C_9H_{12}O$	4,5,6,7-Tetrahydro-indanone	-	-	Freq	Mathieson	JCS	-	(1953)	3251
		1600-1750	L	Freq, Spec	Braude	JCS	-	(1955)	3766
$C_9H_{12}O$	2,3,4-Trimethylphenol	650-1400	Sol	Spec	Shrewsbury	SA	16	(1960)	1409
$C_9H_{12}O$	2,3,5-Trimethylphenol	2.5-15μ	Sol	Spec, Freq, I	Friedel	JACS	73	(1951)	2881
		3500-3800	Sol	Freq	Puttnam	JCS	-	(1960)	5100
		650-1400	Sol	Spec	Shrewsbury	SA	16	(1960)	1294
$C_9H_{12}O$	2,3,6-Trimethylphenol	3μ	Sol	H bond	Sears	JACS	71	(1949)	4110
		11-14μ	Sol	Spec, Quant analysis	Fair	AC	27	(1955)	1886
		650-1400	Sol	Spec	Shrewbury	SA	16	(1960)	1294
$C_9H_{12}O$	2,4,5-Trimethylphenol	650-1400	Sol	Spec	Shrewsbury	SA	16	(1960)	1294
$C_9H_{12}O$	2,4,6-Trimethylphenol	3100-3700	S,Sol	Spec, Assign	Richards	JCS	-	(1947)	1260
		-	S	OH band study	Thompson	JCS	-	(1947)	289
		3μ	S,L, Sol	H bond	Sears	JACS	71	(1949)	4110
		2.5-15μ	Sol	Spec, Freq, I	Friedel	JACS	73	(1951)	2881
		-	-	Ident	VanMeter	AC	24	(1952)	1758
		11-14μ	Sol	Spec	Fair	AC	27	(1955)	1886
		650-1400	Sol	Spec	Shrewsbury	SA	16	(1960)	1294
$C_9H_{12}O$	3,4,5-Trimethylphenol	3100-3700	S,Sol	Spec, Assign	Richards	JCS	-	(1947)	1260
		3μ	S,L, Sol	H bond	Sears	JACS	71	(1949)	4110
		650-1400	Sol	Spec	Shrewsbury	SA	16	(1960)	1294
$C_9H_{12}OS$	3-Isopropyl-2-thienyl methyl ketone	-	-	Freq	Spaeth	JACS	77	(1955)	4066
$C_9H_{12}OS$	4-Isopropyl-2-thienyl methyl ketone	-	-	Freq	Spaeth	JACS	77	(1955)	4066
$C_9H_{12}OS$	5-Isoprepyl-2-thienyl methyl ketone	-	-	Freq	Spaeth	JACS	77	(1955)	4066

$C_9H_{12}O_2$	2-Acetonybicyclo[2:2:1] hept-5-ene	650-3100	Sol	Spec	Henbest	JCS	-	(1957)	997
$C_9H_{12}O_2$	Allethrolene	-	S	Freq	Allan	JOC	20	(1955)	323
		2-15μ	L,Sol	Determination via IR	Freeman	AC	27	(1955)	1268
$C_9H_{12}O_2$	2-Allyl-1,3-cyclohexane-dione	1550-1750	Sol	Spec	Ananchenko	IANS	-	(1960)	1644
$C_9H_{12}O_2$	2-Carbomethoxybicyclo [2:2:1]hept-5-ene	650-3100	Sol	Spec	Henbest	JCS	-	(1957)	997
$C_9H_{12}O_2$	Cumene hydroperoxide	2-15μ	L	Spec, Struct	Shreve	AC	23	(1951)	282
		680-1770	Sol	Spec, Freq	Philpotts	AC	24	(1952)	638
		-	Sol	Freq	Potts	AC	27	(1955)	1027
$C_9H_{12}O_2$	β-Cyclopentyl-$\Delta^{\alpha,\beta}$-butenolide	1550-1850	Sol	Freq, I	Jones	CJC	37	(1959)	2007
$C_9H_{12}O_2$	1,6-Diketospiro[4.4] nonane	-	Sol	Freq	Cram	JACS	76	(1954)	2753
$C_9H_{12}O_2$	1,3-Dimethoxycycloheptatriene	704-2994	L	Table	Johns	JCS	-	(1954)	4605
$C_9H_{12}O_2$	2,5-Dimethyl-4-hydroxymethylphenol	3100-3700	S,Sol	Spec, Assign	Richards	JCS	-	(1947)	1260
$C_9H_{12}O_2$	4,5-Dimethyl-2-hydroxymethylphenol	700-1500	L,S	Spec, Assign	Richards	JCS	-	(1947)	1260
$C_9H_{12}O_2$	2-(2-Hydroxycyclohexylidene)propionic acid lactone	1650-1800	Sol	Spec, Freq, Struct	Dauben	JACS	75	(1953)	3352
		-	Sol	Freq, Struct	Djerassi	JACS	76	(1954)	2966
$C_9H_{12}O_2$	o-Methoxy- α-methylbenzyl alcohol	-	-	Freq	Pinder	JCS	-	(1954)	113
$C_9H_{12}O_2$	1-p-Methoxyphenyl-	9.6-12μ	L	Spec	Winstein	JACS	75	(1953)	147

$C_9H_{12}O_2$	1-p-Methoxyphenyl-ethanol	9.8-12 μ	L	Spec	Winstein	JACS	75	(1953)	147
$C_9H_{12}O_2$	p-Methoxyphenylethanol	1.4 μ	Sol	H bond	Goldman	JOC	23	(1958)	751
$C_9H_{12}O_2$	2-p-Methoxyphenyl-ethanol	-	L	Spec	Winstein	JACS	75	(1953)	147
$C_9H_{12}O_2$	3-Methylbicyclo[2:2:1] hept-2-ene-2-carboxylic acid	680-1000	Sol	Struct	Jones	JCS	-	(1956)	4073
$C_9H_{12}O_2$	3-Methylbicyclo[2:2:1] hept-5-ene-2-carboxylic acid	680-1000	Sol	Struct	Jones	JCS	-	(1956)	4073
$C_9H_{12}O_2$	3-Methylene-6-hydroxy-bicyclo[2:2:1]heptane -2-carboxylic lactone	680-1000	Sol	Struct	Jones	JCS	-	(1956)	4073
$C_9H_{12}O_2$	3-n-Nonen-5-ynoic acid	-	-	Ident	Celmer	JACS	75	(1953)	3430
$C_9H_{12}O_2$	1-Phenoxy-2-propanol	8-10 μ	-	Spec	Sexton	JACS	70	(1948)	3606
$C_9H_{12}O_2$	2-Phenoxy-1-propanol	8-10 μ	-	Spec	Sexton	JACS	70	(1948)	3606
$C_9H_{12}O_2$	dl-2-Phenylpropanediol	-	S	Freq	Eliel	JACS	75	(1953)	4585
$C_9H_{12}O_2$	d-2-Phenylpropanediol	-	S	Freq	Eliel	JACS	75	(1953)	4585
$C_9H_{12}O_3$	3-Acetoxy-2-methyl-cyclohex-2-ene-1-one	5.68-14 μ	S	I	Smith	JCS	-	(1953)	803
$C_9H_{12}O_3$	2-Acetyl-4,4-dimethyl-5-hydroxy-2-pentenoic acid, lactone	800-2900	Sol	Spec, Freq	Lacy	JCS	-	(1960)	3153

$C_9H_{12}O_3$	3-Acetyl-2,5-dihydro-4,5,5-trimethylfuran-2-one	1000-1800	Sol	Spec, Freq	Lacey	JCS	-	(1960)	3153
$C_9H_{12}O_3$	3,5-Bis hydroxymethyl-p-cresol	700-3700	S,Sol	Spec, Assign	Richards	JCS	-	(1947)	1260
$C_9H_{12}O_3$	n-Butyl 2-furoate	800-1700	Sol	Freq, Assign	Katritzky	JCS	-	(1959)	657
		-	-	Assign	Katritzky	SA	16	(1960)	954
		-	-	Assign	Katritzky	SA	16	(1960)	964
$C_9H_{12}O_3$	3,4-Dimethoxybenzyl alcohol	1500-5000	Sol	Freq	Briggs	AC	29	(1957)	904
$C_9H_{12}O_3$	Ethyl 2,4-dimethyl-3-furoate	-	-	Spec	Alexander	JACS	73	(1951)	356
$C_9H_{12}O_3$	Ethyl 4-keto-2-methyl-cyclopent-2-ene-1-carboxylate	-	-	Freq, Struct	Acheson	JCS	-	(1952)	1127
$C_9H_{12}O_3$	Ethyl β-(2'-Furyl) propionate	800-1700	Sol	Freq, Assign	Katritzky	JCS	-	(1959)	657
		800-1500	Sol	Assign	Katritzky	SA	16	(1960)	954
		-	-	Assign	Katritzky	SA	16	(1960)	964
$C_9H_{12}O_3$	Glycidyl sorbate	2-15 μ	L	Spec, Freq	Patterson	AC	26	(1954)	823
$C_9H_{12}O_3$	1-Hydroxy-1-guaiacyl-ethane	600-400	-	Spec, Freq	Herzert	JOC	25	(1960)	405
$C_9H_{12}O_3$	β-Hydroxy-β-1-hydroxy-cyclohexylacrylic lactone	-	S,Sol	Freq, Struct	Duncanson	JCS	-	(1953)	1207
$C_9H_{12}O_3$	2-Propionylcyclohexane-1,3-dione	-	S,L	Freq	Rogers	JCS	-	(1955)	341
$C_9H_{12}O_3$	1,2,3-Trimethoxybenzene	2-15 μ	S,Sol	Freq	Briggs	AC	29	(1957)	904
$C_9H_{12}O_3$	1,3,5-Trimethoxybenzene	700-1000	S,Sol	Out of plane CH	Bellamy	JCS	-	(1955)	2818

$C_9H_{12}O_3$	1,3,5-Trimethoxybenzene	700-1000	S,Sol	Out of plane CH deformation study	Bellamy	JCS	-	(1955)	2818
$C_9H_{12}O_3$	Trimethylphloroglucinol	2-12 μ	Sol	Spec, Struct	O'Connor	JACS	76	(1954)	2368
$C_9H_{12}O_3S$	Ethyl p-toluenesulfonate	-	-	Freq	Bomstein	AC	25	(1953)	512
$C_9H_{12}O_3S$	Methyl β-phenyl-β-hydroxyethyl sulfone	-	-	Freq	Field	JACS	75	(1953)	5582
$C_9H_{12}O_4$	3,5-Dimethyl-2-hydroxy-6-ethoxy-γ-pyrone	-	-	Freq	Reid	JACS	75	(1953)	1655
$C_9H_{12}O_4$	dl-Methyl anhydromonocrotalate	750-3597	L	Freq	Ames	JCS	-	(1954)	375
$C_9H_{12}O_4$	Methyl penicillate	650-4000	S,Sol	Spec	Ford	JACS	72	(1950)	4529
$C_9H_{12}O_6$	1,3,5-Cyclohexanetricarboxylic acid	-	-	Ident	Newman	JACS	76	(1954)	4598
$C_9H_{12}O_6$	1,2,0-Isopropylidene-D-glucofuranurono-6,3-lactone	2-15 μ	S	Spec	Tipson	JRNB	62	(1959)	257
$C_9H_{12}O_7$	Dimethyl acetoxymethoxymaleate	2.86-10.3 μ	Sol	Freq, I	Goodwin	JACS	76	(1954)	5599
$C_9H_{12}S$	Cumene mercaptan	-	-	Freq	Fields	JACS	77	(1955)	4255
$C_9H_{12}S$	n-Propyl phenyl sulfide	1575-650	-	Spec	Tarbell	JACS	74	(1952)	48
$C_9H_{12}Si$	Methylphenylvinylsilane	2050-2250	Sol	Struct	Smith	SA	15	(1959)	412
$C_9H_{13}BrO$	n-Butylvinyl(bromoethynyl)carbinol	-	-	Freq	McLamore	JOC	20	(1955)	109

$C_9H_{13}Cl$	1-Chloro-trans-2-nonen-4-yne	-	Sol	Freq, I	Allan	JCS	-	(1955)	1874
$C_9H_{13}ClSi$	(m-Chlorophenyl)-trimethylsilane	20-160 μ	Sol	Spec, Ident, Iso	Clark	JACS	73	(1951)	3798
$C_9H_{13}ClSi$	(o-Chlorophenyl)-trimethylsilane	20-160 μ	Sol	Spec, Ident, Iso	Clark	JACS	73	(1951)	3798
$C_9H_{13}ClSi$	(p-Chlorophenyl)-trimethylsilane	20-160 μ	Sol	Spec, Ident, Iso	Clark	JACS	73	(1951)	3798
$C_9H_{13}Cl_3NO_3P$	Anilinium o-ethyl-p-trichloromethyl-phosphonate	-	-	Struct	Kennard	JACS	77	(1955)	1156
$C_9H_{13}F_2NO_2$	(3,3-Difluoro-2,4-dioxo-cyclobutyl)diethyl methylammonium betaine	0-15 μ	S	Spec, Freq	Pruett	JACS	74	(1952)	1633
$C_9H_{13}F_3O$	1,1,1-Trifluoro-3-cyclohexylpropanone	-	S	Freq	Nes	JACS	72	(1950)	5409
$C_9H_{13}N.HCl$	4-t-Butylpyridine hydrochloride	-	-	Freq	Witkop	JACS	76	(1954)	5597
$C_9H_{13}N$	1-Cyanooctyne-2	-	-	Determination of impurity	Wotiz	JOC	19	(1954)	1580
$C_9H_{13}N.HCl$	3,5-Diethylpyridine hydrochloride	2-12 μ	-	Spec	Witkop	JACS	70	(1948)	3712
$C_9H_{13}N$	N,N-Dimethylbenzyl-amine	3.38-3.60 μ	S	Freq	Wright	JOC	24	(1959)	1362
$C_9H_{13}N.HCl$	N,N-Dimethylbenzyl-amine hydrochloride	600-400	S	Freq, Assign	Stone	JCS	-	(1958)	52

$C_9H_{13}N$	2,4-Dimethyl-6-ethyl-pyridine	-	-	Ident	Vanmeter	AC	24	(1952)	1758
		-	L	Absorption	Cook	AC	28	(1956)	993
$C_9H_{13}N.HCl$	2,4-Dimethyl-3-ethyl-pyridine hydrochloride	2-12 μ	-	Spec	Witkop	JACS	70	(1948)	3712
$C_9H_{13}N$	2,6-Dimethyl-4-ethyl-pyridine	2-15 μ	-	Spec	VanMeter	AC	24	(1952)	1758
		-	-	Absorption	Cook	AC	28	(1956)	993
$C_9H_{13}N$	N,N-Dimethyl-m-toluidine	2900-3100	Sol	Freq	Hill	JCS	-	(1958)	760
$C_9H_{13}N$	N,N-Dimethyl-o-toluidine	2900-3100	Sol	Freq	Hill	JCS	-	(1958)	760
$C_9H_{13}N$	N,N-Dimethyl-p-toluidine	0.6-2.0 μ	L	N-H study	Ellis	JACS	50	(1928)	685
		700-1400	L	Spec	Whiffen	TFS	41	(1945)	200
		2800-3000	L	Group determination	Braunholtz	JCS	-	(1958)	2780
		2900-3100	Sol	Freq	Hill	JCS	-	(1958)	760
$C_9H_{13}N$	N-Ethyl-m-toluidine	-	L	Freq	Hadzi	JCS	-	(1957)	843
		-	Sol	Quant analysis	Whetsel	AC	29	(1957)	1006
		21-14 μ	Sol	Analysis	Whetsel	AC	30	(1958)	1594
$C_9H_{13}N$	N-Ethyl-o-toluidine	2.5-3.1 μ	Sol	H bond	Gordy	JACS	62	(1940)	497
		-	L	Freq	Hadzi	JCS	-	(1957)	843
$C_9H_{13}N$	m-Isopropylaniline	-	Sol	Freq	Bryson	JACS	82	(1960)	4858
$C_9H_{13}N$	N,N-Methylethylaniline	1-12 μ	L	Spec	Bell	JACS	47	(1925)	2192
		0.8-2.8 μ	L	Spec	Ellis	JACS	49	(1927)	347
		2900-3100	Sol	Freq	Hill	JCS	-	(1958)	760
$C_9H_{13}N$	2-Methyl-3-isopropyl-pyridine	2-15 μ	Sol	Tables	Podall	AC	29	(1957)	1423
$C_9H_{13}N$	2-Methyl-5-isopropyl-pyridine	2-15 μ	Sol	Tables	Podall	AC	29	(1957)	1423

$C_9H_{13}N$	N-n-Propylaniline	1-12 μ	L	Spec	Bell	JACS	47	(1925)	2192
		0.8-2.8 μ	L	Spec	Ellis	JACS	49	(1927)	347
		6550-6850	Sol	NH band	Liddel	JACS	55	(1933)	3574
$C_9H_{13}N$	2-t-Butylpyridine	2-15 μ	L	Freq	Podall	AC	29	(1957)	1423
$C_9H_{13}N$	3-t-Butylpyridine	2-15 μ	L	Freq	Podall	AC	29	(1957)	1423
$C_9H_{13}N$	4-t-Butylpyridine	2-15 μ	L	Freq	Podall	AC	29	(1957)	1423
$C_9H_{13}N$	2,3,4,6-Tetramethyl-pyridine	-	-	Ident	VanMeter	AC	24	(1952)	1758
		-	L	Absorption	Cook	AC	28	(1956)	993
$C_9H_{13}N$	2,3,5,6-Tetramethyl-pyridine	-	L	Absorption	Cook	AC	28	(1956)	993
$C_9H_{13}NO$	o-N-Ethylanisidine	-	Sol	Spec, Freq	Witkop	JACS	74	(1952)	3861
$C_9H_{13}NO$	N-Methyl-N-phenyl-ethanolamine	-	-	Quant, Analysis	Whetsel	AC	29	(1957)	1006
		3 μ	Sol	Freq, H bond	Flett	SA	10	(1958)	21
$C_9H_{13}NO$	N-(β-Phenylisopropyl) hydroxylamine	2-16 μ	S	Spec	Gilsdorf	JACS	74	(1952)	1837
$C_9H_{13}NO$	2,4,6-Trimethyl-3-hydroxymethylpyridine	-	Sol	Iso	Kornfeld	JACS	77	(1955)	4425
$C_9H_{13}NO_2$	N-Acetyl-2-azabicyclo [2,2,2]octan-3-one	1600-1800	Sol	Freq	Hall	JACS	80	(1958)	6428
$C_9H_{13}NO_2$	N-Acetyl-6-azabicyclo [3,2,1] octan-7-one	1600-1800	Sol	Freq	Hall	JACS	80	(1958)	6428
$C_9H_{13}NO_2$	3-Carbethoxy-2,4-dimethylpyrrole	-	S	Freq	Burke	JACS	76	(1954)	1294
		4000-5000	S,Sol	Spec, Assign	Eisner	JCS	-	(1958)	971
$C_9H_{13}NO_2$	2-Carbethoxy-3,5-dimethylpyrrole	2.8-3.6 μ	Sol	H bond	Buswell	JACS	62	(1940)	2759
		500-4000	Sol	Spec, Freq, Struct	Eisner	JCS	-	(1958)	971

		500-4000	Sol	Spec, Freq, Struct	Eisner	JCS	-	(1958)	971
$C_9H_{13}NO_2$	2,6-Dimethoxy-3,4-dimethylpyridine	754-2967	L	Freq	Ames	JCS	-	(1953)	3008
$C_9H_{13}NO_2$	cis-Decahydroisoquinoline-1,3-dione	2-9 μ	Sol	Spec, Freq	Bachmann	JOC	19	(1954)	222
$C_9H_{13}NO_2$	trans-Decahydroisoquinoline-1,3-dione	2-9 μ	Sol	Spec, Freq	Bachmann	JOC	19	(1954)	222
$C_9H_{13}NO_2$	N-(o-Hydroxybenzyl)-2-aminoethanol-1	-	Sol	Band study	Gil	JACS	74	(1952)	1346
		-	Sol	Freq, H bond	Bergmann	JACS	75	(1953)	68
$C_9H_{13}NO_2$	2-(β-Hydroxypropyl)-3-methoxypyridine	-	-	Freq, Ident	Baker	JOC	20	(1955)	118
		-	Sol	Freq	Baker	JOC	20	(1955)	136
$C_9H_{13}NO_2$	6-Methoxy-1,3,4-trimethylpyrid-2-one	766-1647	S	Freq	Ames	JCS	-	(1953)	3008
$C_9H_{13}NO_2$	6-Methoxy-1,4,5-trimethyl-pyrid-2-one	765-3125	S	Freq	Ames	JCS	-	(1953)	3008
$C_9H_{13}NO_2$	N-Methylcyclohexane-1,3-dicarboximide	1600-1800	S	Freq	Hall	JACS	80	(1958)	6428
$C_9H_{13}NO_2S$	N-Ethyl-N-methylbenzenesulfonamide	-	-	Spec, Ident	Cairns	JOC	20	(1955)	627
$C_9H_{13}NO_2S$	N-Ethyl-p-toluenesulfonamide	-	S,Sol	Freq	Baxter	JCS	-	(1955)	669
$C_9H_{13}NO_2S.HCl$	p-Aminomethylphenyl ethyl sulfone hydrochloride	-	S	Freq	Momose	CPBT	6	(1958)	412
$C_9H_{13}NO_2S.HCl$	p-(α)Aminoethylphenyl methyl sulfone hydrochloride	-	S	Freq	Momose	CPBT	6	(1958)	412

$C_9H_{13}NO_3$	Ethyl 1,4,5,6-tetrahydro-2-methyl-6-oxonicotinate	580-3800 2-16 μ	Sol Sol	Spec, Freq, Struct Spec	Banerjee Ramirez	JOC JOC	19 (1954) 1516 19 (1954) 183
$C_9H_{13}N_2O_9P$	Uridylic acid	9-10.5 μ	S	Freq	Schwarz	APS	6 (1952) 15
$C_9H_{13}N_3$	2,6-Dicyano-2,6-dimethyl-piperidine	2-15 μ	-	Freq	Overberger	JACS	77 (1955) 4097
$C_9H_{13}N_3O_3$	2-Amino-4-hydroxy-5-(2'-tetrahydropyranoxy) pyrimidine	650-3600	S	Freq, Struct	Tanner	SA	8 (1956) 9
$C_9H_{13}N_3O_4$	2-Amino-4,6-dihydroxy-5-(2'-tetrahydropyranoxy) pyrimidine	650-3600	S	Freq, Struct	Tanner	SA	8 (1956) 9
$C_9H_{13}N_3O_4$	4-Amino-2,6-dihydroxy-5-(2'-tetrahydropyranoxy) pyrimidine	650-3600	S	Freq, Struct	Tanner	SA	8 (1956) 9
$C_9H_{13}N_3O_4 \cdot HCl$	Cytosine desoxyriboside hydrochloride	2.5-15 μ	S	Spec, Struct	Dekker	JCS	- (1951) 2864
$C_9H_{13}N_3O_5$	Cytidine	-	Sol	Spec, Taut	Miles	BBA	35 (1959) 274
$C_9H_{13}N_5$	2,N-Diethylaminopurine	743-3067	S	I, Freq	Willits	JACS	77 (1955) 2569
$C_9H_{13}N_5O_{10}$	1-Carbethoxymethyl-3,3,5,5-tetranitro-piperidine	-	-	Freq	Feuer	JACS	76 (1954) 5124
$C_9H_{13}O_3S \cdot HCl$	p-Aminomethylphenyl hydroxyethyl sulfone	-	S	Freq	Momose	CPBT	6 (1958) 412
C_9H_{14}	Apocyclene	-	Sol	Freq	Winstein	JACS	77 (1955) 3054
C_9H_{14}	Cyclonona-1,3-diene	670-3000	L	Spec, Freq	Fawcett	JCS	- (1954) 2673
C_9H_{14}	Cyclononyne	2-16 μ - -	- L L	Spec No spec shown Freq	Blomquist Blomquist Blomquist	JACS JACS JACS	73 (1951) 5510 74 (1952) 3643 75 (1953) 2153
C_9H_{14}	1-Methyl-2-vinylcyclo-	-	-	Band study	Stork	JACS	75 (1953) [illegible]

C_9H_{14}	1-Methyl-2-vinylcyclo-hexene	-	-	Band study	Stork	JACS	75	(1953)	3197
C_9H_{14}	1-Spiro[4.4]nonene	-	-	Ident	Cram	JACS	77	(1955)	3576
$C_9H_{14}ClN$	Trimethylphenyl-ammonium chloride	600-4000	S	Spec	Heacock	CJC	34	(1956)	1782
$C_9H_{14}ClO_3P$	3-Chloro-5,5-dimethyl-cyclohex-2-enylidene methylphosphonic acid	-	S	Freq, I	Braude	JCS	-	(1954)	607
$C_9H_{14}Cl_2O_4$	Diethyl bis-(chloromethyl) malonate	-	-	Freq	Ferris	JOC	20	(1955)	780
$C_9H_{14}IN$	Phenyltrimethylammonium iodide	2-8 μ	S	Spec	Nakanishi	BCSJ	30	(1957)	403
$C_9H_{14}IAs$	Phenyltrimethylarsonium iodide	-	-	Spec, Struct	Beeby	JCS	-	(1951)	886
$C_9H_{14}N$	Phenyltrimethylammonium ion	2800-300	S	Group detection	Braunholtz	JCS	-	(1958)	2780
$C_9H_{14}N_2$	t-Amyl-(methyl) malononitrile	-	-	Freq	Westfahl	JACS	77	(1955)	936
$C_9H_{14}N_2$	Azeleonitrile	-	-	Freq	Kitson	AC	24	(1952)	334
$C_9H_{14}N_2$	N-Cyclohexyl-2-cyano-azixidine	-	-	Struct	Jauregg	ANC	72	(1960)	493
$C_9H_{14}N_2O$	4-(2 -Cyanoethyl)amino-3-methyl-3-penten-2-one	650-3800	S	Chart, Table	Cromwell	JACS	71	(1949)	3337
$C_9H_{14}N_2O$	4-N-(2'-Cyanoethyl)-methylamino-3-penten-2-one	650-3800	S	Chart, Table	Cromwell	JACS	71	(1949)	3337
		6 μ	S,Sol	Freq	Weinstein	JOC	23	(1958)	1618

$C_9H_{14}N_2O$	N-Phenyl-N'-(2-hydroxy-propyl)hydrazine	650-4000	S,Sol	Freq, H bond	Tanner	SA	15 (1959)	20
$C_9H_{14}N_2OS$	2-Ethylthio-4-hydroxy-5-ethyl-6-methylpyrimidine	2-25μ	S	Spec, Freq	Short	JCS	- (1952)	168
$C_9H_{14}N_2O_2S$	2-Keto-4-acetyl-2,4,5,4',3',2',-(5',5'-dimethyl-thiazolido)piperazine	33-14.7μ	S,Sol	Freq, I	Hodgson	JACS	76 (1954)	1137
$C_9H_{14}N_2O_3$	3,3-Dimethyl-2,5-dioxo-pyrrolidine-4-propionamide	-	-	Ident	Kuehl	JACS	77 (1955)	4418
$C_9H_{14}N_2O_3$	Ipral	2.5-16μ	S	Spec	Levi	AC	28 (1956)	1591
		-	-	Ident	Cleverley	ANA	85 (1960)	582
$C_9H_{14}N_2O_4$	5-Ethyl-5-(β-hydroxy-propyl)barbituric acid	2-16μ	S	Spec	Skinner	JACS	73 (1951)	3321
$C_9H_{14}N_3O_7P$	Deoxycytidine-3'-phosphate	700-1800	-	Spec	Michelson	JCS	- (1954)	34
$C_9H_{14}N_3O_7P$	Deoxycytidine-5 -phosphate	700-1800	-	Spec	Michelson	JCS	- (1954)	34
$C_9H_{14}N_4$	1-Amino-2,6-dicyano-2,6-dimethylpiperidine	2-15μ	-	Freq, Struct	Overberger	JACS	77 (1955)	4097
$C_9H_{14}N_4$	3,7-Dicyano-3,7-dimethyl-homopiperidazine	-	-	NH_2 study	Overberger	JACS	75 (1953)	2082
$C_9H_{14}N_4O_3$	2,4-Diamino-6-hydroxy-5-(2'-tetrahydropyranloxy)pyrimidine	650-3600	S	Freq, Struct	Tanner	SA	8 (1956)	9
$C_9H_{14}N_4O_4$	4-Amino-6-D-xylosida-	2-15μ	S	Spec, Freq, Assign	Brownlie	JCS	- (1960)	30[illegible]

$C_9H_{14}N_4O_4$	4-Amino-6-D-xylosidaminopyrimidine	2-15 μ	S	Spec, Freq, Assign	Brownlie	JCS	-	(1950)	3062
$C_9H_{14}O$	1-Acetyl-2-methylcyclohexene	2-12 μ	-	Spec, Struct	Turner	JACS	73	(1951)	1403
		-	-	Freq	Henbest	JCS	-	(1952)	1150
		1600-1750	L	Freq, Spec	Braude	JCS	-	(1955)	3766
$C_9H_{14}O$	1-Acetyl-2-methyl-Δ^2-cyclohexene	2-12 μ	-	Spec	Turner	JACS	73	(1951)	1403
$C_9H_{14}O$	1-Ethynylcycloheptanol	3100-3400	L	Ident	Filler	CIL	-	(1957)	1322
$C_9H_{14}O$	Isophorone	-	-	Freq, Struct	Rasmussen	JACS	71	(1949)	1068
		5.5-8 μ	Sol	Freq	Bruson	JACS	75	(1953)	3585
		1600-1750	L	Spec, Freq	Braude	JCS	-	(1955)	3766
$C_9H_{14}O$	4-Isopropyl-3-cyclohexenone	-	L	Freq	Soffer	JACS	77	(1955)	1003
$C_9H_{14}O$	1-Ketospiro [4.4] nonane	-	Sol	Freq	Cram	JACS	76	(1954)	2753
$C_9H_{14}O$	2-Methoxymethylbicyclo [2:2:1] hept-5-ene	650-3100	Sol	Spec	Henbest	JCS	-	(1957)	997
$C_9H_{14}O$	3-Methoxy-1-octen-3-yne	-	-	Spec, Freq	Petrov	ZOK	28	(1958)	71
$C_9H_{14}O$	3-Methyl-3-ethylhexyn-1-one-4	-	-	Freq	Davis	JACS	76	(1954)	3477
$C_9H_{14}O$	3-Methylocta-1,4,6-trien-3-ol	-	-	Freq	Attenburrow	JCS	-	(1952)	1094
$C_9H_{14}O$	6-Methylocta-3,5,7-trien-2-ol	-	-	Freq	Attenburrow	JCS	-	(1952)	1094
$C_9H_{14}O$	1-Methyl-2-vinyl-4-hydroxycyclohexene	2-11.5 μ	Sol	Spec, Freq, Struct	Sto rk	JACS	75	(1953)	3197

$C_9H_{14}O$	trans-2,cis-6-Nonadienal	2-12μ	Sol	Spec, Ident	Sondheimer	JACS	74	(1952) 4040
$C_9H_{14}O_2$	Acyloin	2-12μ	Sol	Spec	Sheehan	JACS	72	(1950) 4614
$C_9H_{14}O_2$	Allylcarbinyl cyclobutane-carboxylate	2-13μ	Sol	Spec, Ident	Roberts	JACS	73	(1951) 5487
$C_9H_{14}O_2$	4,5-Butano-3,4,5,6-tetra-hydro-α-pyrone	-	L	Freq	Astill	JACS	77	(1955) 4079
$C_9H_{14}O_2$	Cyclobutyl cyclobutane-carboxylate	2-13μ	Sol	Ident, Spec	Roberts	JACS	73	(1951) 5487
$C_9H_{14}O_2$	Cyclohexyl acrylate	-	Sol	Freq	Davison	JCS	-	(1953) 2607
$C_9H_{14}O_2$	1,2-Cyclononanedione	2-15μ	L	Spec	Blomquist	JACS	74	(1952) 3643
		-	L	Freq	Blomquist	JACS	75	(1953) 2153
$C_9H_{14}O_2$	Cyclooctene-1-carboxylic acid	2-16μ	Sol	Spec	Cope	JACS	74	(1952) 173
$C_9H_{14}O_2$	Cyclopropylcarbinyl cyclobutanecarboxylate	2-13μ	Sol	Ident, Spec	Roberts	JACS	73	(1951) 5487
$C_9H_{14}O_2$	Dimedon methyl ether	5-10μ	Sol	Spec, Freq, Struct	Heyman	JACS	76	(1954) 3689
$C_9H_{14}O_2$	2-Methylbicyclo[2:2:1]-heptane-3-carboxylic acid	680-1000	Sol	Struct	Jones	JCS	-	(1956) 4073
$C_9H_{14}O_2$	cis-5-Methyl-2-cyclo-hexenyl acetate	-	Sol	Analysis	Goering	JACS	77	(1955) 4042
$C_9H_{14}O_2$	trans-5-Methyl-2-cyclo-hexenyl acetate	-	Sol	Analysis	Goering	JACS	77	(1955) 4042
$C_9H_{14}O_2$	Methyl 1,2-heptadiene-3-carboxylate	2-16μ	L	Spec	Wotiz	JACS	72	(1950) 1639
		-	-	Band study	Wotiz	JACS	74	(1952) 1860
		-	-		Gambonj	HCA	37	(1954) 964

		-	-	Band study	Wotiz	JACS	74 (1952) 1860
$C_9H_{14}O_2$	7-Methyl-2,6-octadienoic acid	600-3800	S	Spec	Gamboni	HCA	37 (1954) 964
$C_9H_{14}O_2$	cis-Nepetolactone	-	L	Freq	McElvane	JACS	77 (1955) 1599
$C_9H_{14}O_2$	endo-Norbornyl acetate	3-13μ	L,Sol	Spec, Ident	Winstein	JACS	74 (1952) 1147
$C_9H_{14}O_2$	exo-Norbornyl acetate	3-13μ	L,Sol	Spec, Ident	Winstein	JACS	74 (1952) 1154
$C_9H_{14}O_2$	1,2-Octadiene-3-carboxylic acid	-	S	Band study	Wotiz	JACS	74 (1952) 1860
$C_9H_{14}O_2$	2,3-Octadiene-4-carboxylic acid	- 2-16μ	- S	Freq, Struct Spec	Wotiz Wotiz	JACS JACS	73 (1951) 1971 74 (1952) 1860
$C_9H_{14}O_2$	n-2-Octynoic methyl ester	2-15μ	L	Spec	Wotiz	JACS	71 (1949) 3441
$C_9H_{14}O_2$	n-3-Octynoic methyl ester	2-15μ	L	Spec	Wotiz	JACS	71 (1949) 3441
$C_9H_{14}O_2$	n-4-Octynoic methyl ester	2-15μ	L	Spec	Wotiz	JACS	71 (1949) 3441
$C_9H_{14}O_2$	5-Octynoic methyl ester	2-15μ	L	Spec	Wotiz	JACS	71 (1949) 3441
$C_9H_{14}O_2$	6-Octynoic methyl ester	2-15μ	L	Spec	Wotiz	JACS	71 (1949) 3441
$C_9H_{14}O_2$	7-Octynoic methyl ester	2-15μ	L	Spec	Wotiz	JACS	71 (1949) 3441
$C_9H_{14}O_3$	endo-4,7-Endomethylene-2-oxahydrindane-cis-5,6-diol	-	-	Struct	Eliel	JACS	77 (1955) 3600

$C_9H_{14}O_3$	Ethyl cyclohexanone-2-carboxylate	-	L	Freq	Leonard	JACS	74 (1952) 4070
$C_9H_{14}O_3$	Ethyl cyclohexanone-4-carboxylate	-	L	Freq	Leonard	JACS	74 (1952) 4070
$C_9H_{14}O_3$	Ethyl 4-hydroxy-4-methyl-hex-5-ynoate	-	-	Freq	McLamore	JOC	19 (1954) 570
$C_9H_{14}O_3$	Ethyl 2-oxocyclohexane-1-carboxylate	-	S	C=O freq	Kidd	JCS	- (1953) 3244
		-	Sol	Freq	Bellamy	JCS	- (1954) 4487
$C_9H_{14}O_3$	2-Methyl-3,4-dihydro-2H-pyran-2-methanol acetate	-	-	Band study	Smith	JACS	73 (1951) 5270
$C_9H_{14}O_3$	3-Methyl-5-t-butyl-tetronic acid	2-15 μ	S	Spec, Freq	Reid	JOC	16 (1951) 33
$C_9H_{14}O_3$	2,5,8-Nonanetrione	2-15 μ	Sol,S	Spec, Assign	Tensmeyer	JPC	64 (1960) 1655
$C_9H_{14}O_4$	α-Carbethoxy-d-ethyl-γ-butyrolactone	2-16 μ	L	Spec, Freq	Skinner	JACS	73 (1951) 3321
$C_9H_{14}O_4$	trans-(dl)-4-Carboxy-2,2-dimethylcyclobutyl-acetic acid	665-1900	Sol	Ident, Spec	Campbell	JCS	- (1953) 3002
$C_9H_{14}O_4$	Diethyl citraconate	800-1800	L	Ident, Spec	Stafford	AC	26 (1954) 656
		-	Sol	Freq	Felton	JCS	- (1955) 2170
$C_9H_{14}O_4$	Diethyl cyclopropane-1,1-dicarboxylate	-	Sol	Freq, I	Piehl	JACS	75 (1953) 5023
		-	L,Sol	Freq	Slabey	JACS	76 (1954) 3604
$C_9H_{14}O_4$	Diethyl itaconate	800-1800	L	Ident, Spec	Stafford	AC	26 (1954) 656
$C_9H_{14}O_4$	Diethyl mesaconate	-	Sol	Struct, Spec	Felton	JCS	- (1955) 2170
$C_9H_{14}O_4$	Dimethyl 2-methylene-1,6-	-	Sol	Freq	Jones	JCS	- (1954) 1865

$C_9H_{14}O_4$	Dimethyl 2-methylene-1,6-hexanedioate	-	Sol	Freq	Jones	JCS	-	(1954)	1865
$C_9H_{14}O_4$	4-Methylcyclohexane-1,1-dicarboxylic acid	3.4-10.9 μ	-	Ident	Price	JACS	76	(1954)	2301
$C_9H_{14}O_4$	dl-Pinic acid	1600-4000	Sol	Spec, Ident	Francois	BSCF	-	(1959)	1606
$C_9H_{14}O_5$	Methyl monocrotalate	600-4000	S	Spec	Adams	JACS	74	(1952)	5876
$C_9H_{14}O_6$	Triacetin	2-15 μ	L	Spec	Kindall	APS	7	(1953)	179
		2-15 μ	Sol	Spec, Freq	Pristera	AC	25	(1953)	844
$C_9H_{14}O_6$	1,1,3-Triacetoxypropane	-	-	Freq	Smith	JACS	73	(1951)	5282
$C_9H_{14}Si$	Isopropylphenylsilane	-	L,Sol	Freq, I	Harvey	JACS	76	(1954)	4555
$C_9H_{14}Si$	n-Propylphenylsilane	-	L,Sol	Freq, I	Harvey	JACS	76	(1954)	4555
$C_9H_{14}Si$	Trimethylphenylsilane	-	L	Ident	Gilman	JOC	18	(1953)	1743
		1-24 μ	L,Sol	Spec	Cerato	JCP	22	(1954)	1
		3-12 μ	Sol	Spec	Kanazachi	BCSJ	27	(1954)	441
$C_9H_{15}DO_4$	Diethyl ethylmalonate-d_1	2-15 μ	L	Spec, Freq	Abramovitch	CJC	36	(1958)	151
$C_9H_{15}Br$	2-Bromo-2-methyl-3-octyne	2-16 μ	L	Spec	Wotiz	JACS	72	(1950)	5055
$C_9H_{15}Br$	2-Bromo-3-nonyne	2-16 μ	L	Spec	Wotiz	JACS	72	(1950)	5055
$C_9H_{15}BrO$	2-Bromocyclononanone	-	Sol	IR	Leonard	JACS	80	(1958)	6039
$C_9H_{15}ClSi$	Triallylchlorosilane	8-15 μ	Sol	Spec	Scott	JACS	73	(1951)	2599

$C_9H_{15}N$	$\Delta^{1(10)}$-Dehydroquinolizidine	-	L	Spec, Freq	Leonard	JACS	77	(1955)	439
$C_9H_{15}N.HI$	Δ^{1}-Dehydroquinolizidine hydriodide	-	S	Freq	Leonard	JACS	77	(1955)	439
$C_9H_{15}N$	2-Ethyl-3-methyl-2-hexenenitrile	-	-	Struct	Hogsed	JACS	76	(1954)	2305
$C_9H_{15}N$	3-Isopropylidene-5,5-dimethylpyrroline	6.37μ	Sol	Freq	Meyers	JOC	24	(1959)	1233
$C_9H_{15}N$	2,2,3,4-Tetramethyl-3-pentenenitrile	-	-	Freq	Van Heningen	JACS	77	(1955)	4016
$C_9H_{15}N$	Triallylamine	-	L	Analysis	Butler	JACS	77	(1955)	1767
$C_9H_{15}N$	2,4,5-Trimethyl-3-ethylpyrrole	-	-	Ident	VanMeter	AC	24	(1952)	1758
$C_9H_{15}NO$	α-Cinenicnitrile	-	-	Ident	Meinwald	JACS	77	(1955)	1617
$C_9H_{15}NO$	N-Crotonylpiperidine	600-3600	L	Freq	Edwards	CJC	32	(1954)	683
$C_9H_{15}NO$	1-Morpholino-1-cyclopentene	-	-	Spec	Opitz	A	623	(1959)	112
$C_9H_{15}NO$	4-N-Pyrrolidyl-3-penten-2-one	1500-1800	S	Freq, Struct	Leonard	JACS	81	(1959)	595
$C_9H_{15}NO_2$	N-Acetylnorpseudotropine	-	-	Freq, Config	Nickon	JACS	74	(1952)	5566
$C_9H_{15}NO_2.HCl$	O-Acetylnorpseudotropine hydrochloride	-	-	Freq, Config	Nickon	JACS	74	(1952)	5566
$C_9H_{15}NO_2$	N-Pentylsuccinimide	-	S	Freq	Ames	JCS	-	(1955)	631

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ABSTRACT (A 200-word or less factual summary of most significant information. If document includes a significant bibliography or literature survey, mention it here.)

This bibliography is based on a systematic search of the literature on infrared spectroscopy up to the end of 1960. It covers, directly or through abstract journals, 121 periodicals. As a general rule, any paper of interest in the field of infrared spectroscopy is included. Substance coverage is provided in four sections: organic compounds, inorganic compounds, polymeric compounds, and minerals and ores. Information provided includes: empirical formula, compound name, range of wavelengths reported, state of material, type of data presented in paper, and literature reference. Issued in three parts.

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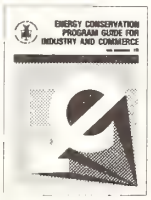

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